

Comp Center orders 360

By Mark Bolotin

Plans to install a 6,000,000 IBM System/360 time-sharing computer complex at the MIT Computation Center were announced during the summer.

The new computer, an IBM 360 Model 67, designed specifically for time-sharing will be capable of handling 200 users working with different programs from remotely located terminals.

The computer which is scheduled to be installed within a year and a half, will replace the less-powerful IBM 7094 system. At present with the 7094, 30 people are able to use the computer simultaneously.

Larger System

The larger System/360 computer complex has become necessary

due to increased demand. With computers being used in virtually every facet of MIT life from classroom to research, a steadily growing need for more computer time has forced the development of time-sharing.

By providing its services to more people simultaneously and by being in use 24 hours daily instead of only part of the day, as was the 7094, the new System/360 will enable further use of time-sharing.

50 Schools

The new computer complex will, however, serve more than MIT. Through the Computer Center the System/360 will be available to more than 50 cooperating colleges and universities throughout New England.

The IBM System/360 for the Computation Center will consist of two central processing units and two minor units each with access times as short as 150 to 200 nanoseconds. Supporting this equipment will be IBM 2314 direct access storage facilities.

(Please turn to page 3)

INDEX

College World	2
Editorials	4
Entertainment	11
Footnotes	4
Inside Inscomm	3
Peanuts	4
Sports	16
Student Center Section	7-10

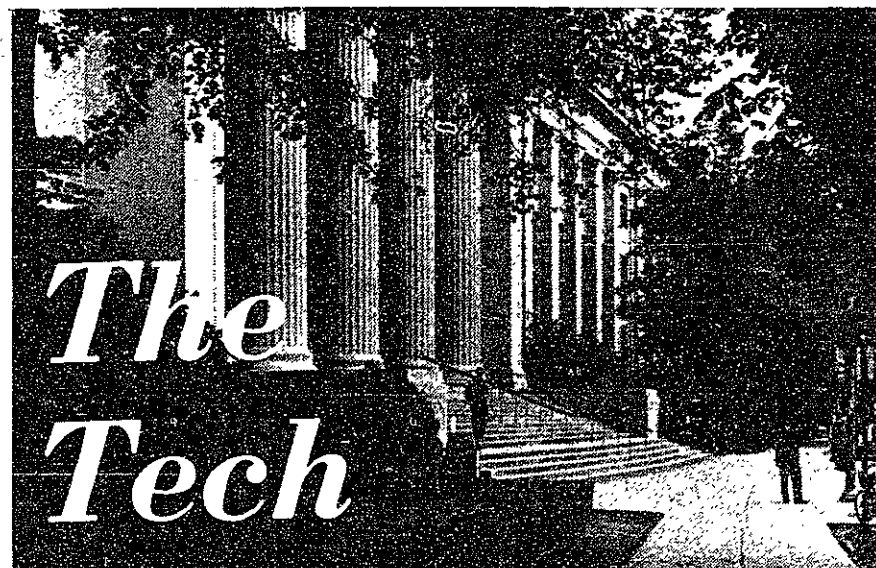
Course I gets 360 Model 40

A new IBM System/360 Model 40 computer has been installed in the Civil Engineering Systems Laboratory.

The new machine will be used in the ICES (for Integrated Civil Engineering System) program of research and development. This program seeks new ways to use computers in planning and designing transportation systems, buildings, bridges, and other structures.

The System/360 computer, the first to be delivered to a civil engineering organization, can also be used as a powerful input-output and design facility for the System/360 Model 67 computer planned for the Computation Center.

The Model 40 is the fourth computer in the Civil Engineering Systems Laboratory since it was established five years ago, having been preceded by IBM 650, IBM 1620 and IBM 7040 systems. It will also be used to prepare for civil engineering use of the System/360 Model 67 time-sharing computer complex to be installed at the MIT Computer Center by 1967.



Vol. 85, No. 15 Cambridge, Mass. Friday, Sept. 17 Free

Follows Stever

Shapiro named Course II head

Professor Ascher H. Shapiro, an authority of fluid dynamics and a key figure in the Institute's curriculum revision, has been named head of the Department of Mechanical Engineering. Announcement of Dr. Shapiro's appointment was made this summer by Dean Gordon S. Brown of the School of Engineering.

Professor Shapiro succeeds Dr. Guyford Stever, who left MIT last February to become president of Carnegie Tech in Pittsburgh.

Currently Dr. Shapiro is Chairman of the Faculty, but is resigning this post in order to continue his teaching and research. He was also ex officio chairman of the Committee on Educational Policy, which prepared the new curriculum brought before the full faculty last winter and in effect this fall. He had served on this committee before becoming its chairman.

Dr. Shapiro's previous contributions to engineering education include pioneering work in educational films and revision of the mechanical engineering course at MIT.

Also active in research, Dr. Shapiro has been involved in the problems of power production and propulsion engines. In 1953 he headed Project Dynamo, an AEC evaluation of nuclear power for civilian use. He is currently a member of the Scientific Advisory Board of the US Air Force.

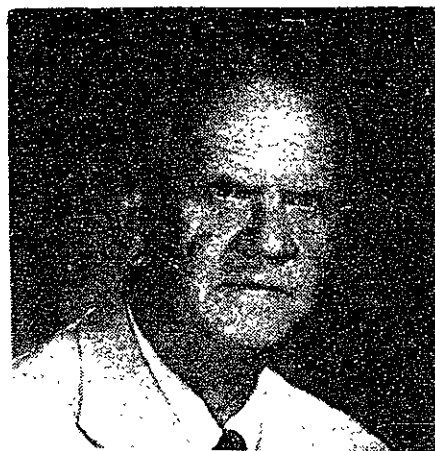
Professor Shapiro received his S.B. and Sc. D. degrees from MIT in 1938 and 1946. He became an assistant in mechanical engineering in 1938, assistant professor in 1943, associate professor in 1947, and professor in 1952.

Professor Hans Mueller stricken during summer

by Bob Horvitz

Professor Hans Mueller, a member of the MIT Physics Department for 40 years, died suddenly at his home in Belmont soon after the close of the spring term on June 10.

In the words of Dr. Julius A. Stratton, President, Prof. Mueller was "a superb teacher and one of the most beloved members of our faculty." Over the years Prof. Mueller had much to do with shaping the curriculum of the Department of Physics. He had taught almost every undergraduate subject offered by the department and, at one time or another,



Professor Hans Mueller

er, was in charge of many of them.

Prof. Mueller was born on October 27, 1900 a Amriswil, Switzerland. He received his diploma in Science and mathematics in 1923 and his Doctor of Science degree in Physics in 1927, both from the Eidgenossische Technische Hochschule in Zurich. He came to MIT as a research associate in the Department of Physics in 1925, was made an assistant professor in 1928, associate professor in 1935, and professor in 1942. His service to the Institute was continuous except for the academic year 1937-38, when he was on leave as a Guggenheim Fellow at the Cavendish Laboratory at Cambridge University.

Field of optics

In his field of optics, Prof. Mueller had made numerous significant contributions. During the past two years he had been conducting research on the interaction of complex substances with monochromatic light, assisted by his daughter, Mrs. Agneta Domaszewicz, who was also a physicist and, until recently, a staff member of the Instrumentation Laboratory.

Earlier in his career, Dr. Mueller pursued research concerned with the physical properties of crystals, liquids, electrolytes and colloids. His work relating to the understanding of ferro-electrics, of the photoelastic effect, and the coagulation of colloids was of basic importance.

Class of '69 numbers 963, with 48 coeds

The class of '69, 961 strong, and including 48 coeds will register Monday. Last year's freshman class totaled 907.

The freshmen come from 49 states (North Dakota is the exception) and 47 foreign countries. Ten percent are from Massachusetts, including 40 students from the Boston area. They represent 617 public high schools and 104 independent or church-related schools.

Complete scholastic rankings from high schools are not available, but at least 776 of the freshmen were in the top tenth of their classes; 56 were in second tenth and 20 in the third tenth.

Seventy of the freshmen will have National Merit Scholarships and 557 members of the class will receive financial aid, totaling \$700,000 during the year, either in scholarships or loans or both.

Among the freshmen are 192 winners of varsity letters in sports and 246 who had editorial staff positions on school publications.

An enrollment of 7,300 for MIT is expected. This will exceed last year's total by about 150. Approximately 3,700 will be undergraduates and about 3,600 graduate students.

Dr. Wick assumes position as Dr. Mattfeld resigns

Dr. Emily L. Wick, Associated Professor of Food Chemistry, was appointed Associate Dean of Student Affairs during the summer. She succeeded Dr. Jacquelyn A. Mattfeld, who resigned to assume the position of Dean of Sarah Lawrence College.

Miss Wick, of Rockport, Mass., will assume primary responsibility for women students while at the same time working in the entire area of student affairs. In addition, she will continue to teach and carry on research in the Department of Nutrition and Food Science.

Mattfeld—two years

Mrs. Mattfeld came to MIT two years ago to carry primary responsibility for a significantly ex-

panding program for women students. Since 1963 she has contributed to the development of the first permanent women's residential program at MIT, to the doubling of the admission rate of women in two years, and to the adoption of a policy of moving toward a total enrollment of undergraduate women of 350 to 400 in the near future.

Previously Mrs. Mattfeld had been Associate Dean of Instruction and Dean of East House at Radcliffe College and Lecturer in Music at Harvard.

Ph.D. from MIT

Dr. Wick received the B.A. degree in 1943 and the M.A. in 1945 from Mount Holyoke College where she taught chemistry for a year. She came to MIT in 1946 and completed her work for the doctorate in 1951. After four years as a chemist in the Flavor Laboratory at Arthur D. Little, Inc., she returned to MIT as a post-doctoral fellow for two years. In 1959 she was appointed Assistant Professor of Food Chemistry and was promoted to Associate Professor in 1963 in the Department of Nutrition and Food Science.

Member of

She has been author of or contributor to almost a score of scholarly papers in the area of flavor analysis and preservation; she is Scientific Lecturer of the Institute of Food Technologists; and she is a member of the American Chemical Society, the American Association for the Advancement of Science, Sigma Xi, and the American Association of Cereal Chemists.

Fraternities net 348 pledges at best attended Rush Week to date

Sue Downs

As of late Wednesday afternoon, 348 of the 652 freshmen that registered for rush week, pledged fraternities. This represents records for both attendance at Rush and numbers of pledges. The previous record was 630 coming to rush week and 333 pledging. Last year's attendance of rush week was 613, with 333 pledged.

The operation of the "Clearing House" was particularly well handled since 630 freshmen were processed by midnight on Friday. This matches the previous record, of 630 which were processed by midnight of Monday, 1963.

The breakdown of the 348 pledges is as follows.

Alpha Epsilon Pi
Alpha Tau Omega
Beta Theta Pi
Chi Phi

Delta Kappa Epsilon
Delta Psi
Delta Tau Delta
Delta Upsilon
Kappa Sigma
Lambda Chi Alpha
Phi Beta Epsilon
Phi Delta Theta
Phi Gamma Delta
Phi Kappa Sigma
Phi Kappa Theta
Phi Mu Delta
Phi Sigma Kappa
Pi Lambda Phi
Sigma Alpha Epsilon
Sigma Alpha Mu
Sigma Chi
Sigma Nu
Sigma Phi Epsilon
Tau Epsilon Phi
Theta Chi
Theta Delta Chi
Theta Xi
Zeta Beta Tau

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Photo by Art Kalotkin

Frantic sign wavers meet eager freshmen outside Kresge last Friday night as Rush Week began. Record number of frosh at Rush (652 total) yielded record number of pledges—348 at press time.

GM gives \$1,000,000 for highway safety study

By Dan Asimov

General Motors has given MIT a \$1,000,000 grant payable over four years to study methods of improving highway safety.

Past studies of this sort have concentrated on one facet of the problem. MIT's study will attempt to cover all sides of highway safety. It will investigate ways of determining causes of accidents and other traffic problems and at the same time will devise and evaluate solutions to these problems.

One part of the study might be to appraise the effectiveness of a given amount of money if spent

1) in making traffic laws stricter; 2) in improving traffic signs and signals; 3) in improving car safety features.

Because of the complexity of the field of highway safety, it is expected that MIT faculty and graduate students will participate in the study.

The GM grant seems to be indicative of the rising nationwide concern for safe and efficient travel is currently performing a federally financed study of the feasibility of a high-speed ground transportation system connecting Boston, New York and Washington.

Inspired by Wiener

Course VI graduate student conducts studies of use of bioelectric signals in muscle control

Use of bioelectric signals generated by voluntary contraction of muscles to control prosthetic devices—a project inspired by the late Norbert Wiener, famed MIT mathematician—is being studied by engineers at M.I.T.'s Research Laboratory of Electronics.

The studies have several possible applications. One is eventual development of prosthetic devices that amputees might one day be able to control with the natural electrical impulses associated with contraction of their own remaining muscles. Another is development of devices astronauts might be able to use to control space vehicles while immobilized under heavy acceleration forces.

The MIT work so far has dealt with understanding the characteristics of bioelectrical impulses from muscles and the voluntary control of a mechanical device through these signals. The problem has been worked on at RLE by an electrical engineering graduate student, Ralph Alter of Toronto, Canada, under the direction of Professor Amar G. Bose, and in the Engineering Projects Laboratory a mechanical engineering graduate student, Ronald D. Rothchild of Brooklyn, N.Y., under the direction of Professor Robert W. Mann.

RLE, headed by Professor Henry J. Zimmerman, is an interdepartmental and interdisciplinary

laboratory supported primarily by the three military services through the Joint Services Electronics Program. It provides research facilities for workers from throughout the Institute whose interests deal with advanced electronic theory and development. EPL's overall program in sensory aids and prostheses research is supported by the U.S. Vocational Rehabilitation Administration.

In the prostheses studies, Alter first simulated control of a normal elbow on RLE's PDP-1 computer and manipulated a simulated elbow with input bioelectric signals generated by flexing of the biceps and triceps muscles in his own upper arm.

Then, he and Rothchild were able to link the computer to an actual motor-driven artificial elbow and forearm and associated controls developed by Rothchild. The arm employs several unique design features that make it highly efficient in terms of power consumption and loading.

Alter uses surface electrodes attached to the skin to pick off the muscle signals. His own arms are perfectly normal, but the biceps and triceps signals he generates by holding the edge of a table with his hand and tensing his muscles can also be generated by a person with amputation at or just above the elbow.

Developed at RLE

The signals are first processed by the computer, then fed to the arm controls where they are further processed and used to move the artificial elbow.

A major design objective was graded control so that the operator has some of the same fine gradations of control over velocity and force in moving the elbow and forearm as are possible with a normal limb.

A major unsolved problem is sensory feedback. Right now, an operator has only visual feedback to tell him where the arm is in space. Normal persons also can "feel" spatial position of a limb because of signals fed back to the brain via the nervous system.

Bioelectricity controlled prosthetic devices originally were suggested by Prof. Wiener as early as 1952 and grew out of his monumental work in cybernetics, communications and control. Prof. Wiener, a theoretician, at first had little success in persuading physicians or engineers to work on reducing his ideas to practice, although workers in Russia did pick up his suggestions and made some impressive early progress.

But in the early 1960's, Prof. Wiener happened to be hospitalized at Massachusetts General Hospital with a broken hip, and from his vantage point there, was able to bring together physicians at the hospital and engineers from MIT. The work of Alter and Rothchild has grown out of this collaboration which continues despite Professor Wiener's death last year. An elbow was chosen to begin with because of its simplicity and because forearm amputees typically retain the use of upper arm muscles.

TSE lists opportunities, services, and goals for Technology Community during coming year

by Ted Nygreen

Technology Student Enterprises Inc., a student run corporation, was established three years ago to provide opportunities for student business ventures and service to the MIT community.

Under new management for the coming year TSE plans to expand existing services and has established several new agencies to further its goal of inexpensive services for MIT students, staff, and faculty.

With seven divisions this year under the direction of Mr. Tom Harrington, TSE will provide even more needed services than in the past. President Hank Ferritt '66, has announced the creation of these additional agencies in keeping with the new outlook of expansion into other useful areas. A re-evaluation of existing agencies has resulted in additional services of use now to the entire MIT population.

Travel Service

The area of TSE probably most familiar to students is the Travel Service, offering student flights now during every vacation period. In addition to wider range of charter flights available this year to Europe and major U.S. airline terminals.

TSE will be offering group flights to various other large U.S. cities, Greyhound bus charters, and organized trips such as ski weekends.

According to Ralph Schmitt '66, manager of the Travel Service, provisions will be made for assistance in booking flights and connections, finding accommodations, buying Eurailpasses, and even purchasing cars in Europe.

Terry Vander Werff '66, Vice President in charge of existing agencies, has announced the continuation of the subscription sales division, but with a larger selection of magazines and newspapers.

New Agencies

New agencies this year include a linen service at low rates for Bexley Hall, to go along with the TSE operated laundry there. The

possibilities for expansion of this division into fraternities and other dormitories appear promising. The concession in Walker Memorial and exclusive management of the sale of the Collegiate Sampler will also be run by TSE.

Sales Reps

Campus Sales Representatives, working through TSE, began last spring with Paavo Pyykkonen representing United Airlines and assisting in reservations. This year, this division is being expanded to include American Airlines, TWA, and Hertz Rent-a-Car.

Another progressive idea TSE will operate is a computer programming service for businesses and Institute computers. This will be run similar to a job "placement" bureau in providing students with knowledge of computers high paying, short term, part time employment. Bill Roeseler '65, Vice President in charge of new agencies, will organize and direct these new operations.

Technology Student Enterprises, being a relatively new organization on the MIT campus, needs people to serve as managers and representatives in connection with the various divisions. It is an opportunity for students to earn money as well as gain valuable business experience. TSE is a growing organization, and with the new management's emphasis on expansion into many other useful areas, TSE will undoubtedly become a large part of every MIT student's life.

College World

The summer seems to be well over if the driving conditions around Bay State road and Beacon street are any indication. Someone figured out that the population of Boston varies by over 100,000 as the summer begins. And each September every single one of them returns to Boston by the same route at the same time. The result is a jam that even "Boston's finest" are hard put to solve.

Freshmen are back again this year. They never change much. You can always tell a freshman by his clean, freshly scrubbed look, his name-tagged clothes, his brand-new sweatshirt with the name of his chosen alma-mater-to-be plastered on the front, and

his mounds of luggage and possessions, the combined total of which is sufficient to furnish an expedition to the moon.

But freshmen are the upperclassmen of the years to come, and each one is busily learning the rules, written or otherwise, that must govern his conduct around campus. Wellesley freshmen were busily asking sophomore "Ask-me's" how to sign out, where to buy a coke, and how to meet all those nice boys from MIT.

The summer was noteworthy in some respects as reported in an early summer edition of the Michigan State News. The topless swimsuit failed to sweep the country last summer and no longer were being sold this summer.

The drought continued in the other areas of the country. The Farmer's Almanac predicted a summer of rain, lightning, tornado, but early reports indicated that attendance at beaches and parks had not been curtailed.

Sales of suntan lotion rose higher this year as sun worshippers grabbed chunks of sunlight. Not as many girls were wearing bikinis this year, as sportswear shops were reporting drops in sales of bikinis. The two-piece suit was the largest selling suit.

The "scandal suit," a two-piece with netting between was also a big seller this summer. Different scandal suits sported provocative names, among which are "Fero-cious," "Outrageous," "Wild Life," "Showdown," and "Me Jane."

CE head appointed to Science Board

C. L. Miller, Head of the Department of Civil Engineering, has been named a member of the Latin American Science Board of the National Academy of Sciences. The Science Board advises the Agency for International Development of the U.S. Department of State on the utilization of science, engineering, and technology in Latin American development programs.

Earlier this year, Professor Miller received an award as one of the Outstanding Young Men of Greater Boston from the Junior Chamber of Commerce, and was named a Fellow of the American Academy of Arts and Sciences.

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French bacteriologist named winner of 1965 Underwood-Prescott award

Henri Cheftel, eminent French bacteriologist, has been selected by MIT as the 1965 winner of the Underwood-Prescott Memorial Award. He will deliver the annual lecture, to be held at the Museum of Science October 21, before an audience of about 200 scientists and food industry executives.

Dr. Samuel A. Goldblith of MIT's Department of Nutrition and Food Science, and chairman of the award committee, announced the selection. The committee cited Professor Cheftel for his outstanding research on the nutritive values of thermally processed foods and in the preven-

tion of corrosion of metal containers.

Leading role

As Chairman of the Scientific Sub-Committee of the International Committee on Canned Foods, Professor Cheftel has taken a leading role in organizing the International Congresses on Canning. These were held in Paris in 1937 and 1951, in Rome in 1956, and in Berlin in 1960.

Chevallier-Appert prize

In 1931, Professor Cheftel was awarded the Chevallier-Appert Prize by Alfred Chevallier-Appert, the great-great nephew of Nicholas Appert, who invented canning in 1810. Professor Cheftel's

contributions to food preservation were recognized in 1942 by the French Academy of Medicine, which presented him the Prix Vernois. The Institute of Food Technologists (USA) awarded Professor Cheftel its International Award in 1958.

Professor Cheftel was the co-founder in 1930 of the first laboratories devoted to research of the canning industry in France. He is still associated with the same company, J. J. Carnaud & Forges de Basse-Indre, leading manufacturers of metal containers, as director of research. In addition, he is a professor and member of the managing committee of the Ecole Technique de la Conserve.

Professor Cheftel has published more than 70 papers in scientific and technical journals and is co-author of a definitive book on legislation pertaining to canned foods. His monographs have been translated into many languages.

UAP welcomes frosh; activity in campus life encouraged

By Bill Byrn

By the time this issue of The Tech is distributed, members of the class of 1969 will have been greeted, welcomed, advised, herded, and lectured to almost continually for three days.

This column is normally devoted to the newsworthy events or topics on campus which involve undergraduate government — or more specifically, which involve the Institute Committee. This week's column will only add one more welcome — and a little more advice.

About the welcome — have you ever wondered why upperclassmen are so eager to meet freshmen — and to "cue them in" concerning life around the Institute? I think for some of us aged undergraduates, our welcomes are provoked by a nostalgia for the bliss of ignorance. We've been through it — 8.01 and 21.01 and Field Day and all the rest. We

all look forward to guiding you through the pleasures and pains of MIT's first year.

The advice is not new. Simply, you are advised to take advantage of as many of the opportunities — inside and outside the classroom — that your time and personal capacities permit. For one thing, failing to become involved in the extracurricular life of the MIT community is failing to take full advantage of the investment that you, your parents, and possibly others have made in your education.

What opportunities? Athletics, political organizations, hobbies, religious clubs, service groups, social, civic, and cultural activities. In almost every area of student interest, MIT has a working group. If not, you can start one: several political groups, a few hobby groups, and a new campus publication were all "chartered" last year.

Next week we will have more specific news of the Student Center programs — and a few announcements about the building.

Distributed free

PR Committee plans publication of new campus information bulletin

The Public Relations Committee of Incomm will begin publication of a free, weekly, student information bulletin.

The committee plans to collect and distribute information concerning campus events, activity meetings, sports, special events, and general notices of interest to the undergraduate student body.

The distribution system, which will be handled by the Secretariat, is more inclusive than any system that a single activity could maintain on a weekly basis.

Bursar to retire, successor named

MIT's bursar, Wolcott A. Hokanson, will retire this month after 50 years of continuous service.

Mr. Hokanson began work at MIT as an office boy when MIT buildings were located in Boston's Back Bay. He subsequently became general clerk, bank messenger, chief accountant, assistant bursar, and, in 1954, bursar. Since then he has been responsible for receipt of all funds and distribution of all Institute payments.

During his half-century, Mr. Hokanson has served the MIT community in many ways. Since 1937 he has been assistant treasurer of the American Academy of Arts and Sciences, and has been assistant treasurer of Atoms for Peace Awards, Inc. since its establishment. Many student activities have come to him with their accounting problems. A founder of the MIT DeMolay Chapter, he is past master of the Richard C. MacLaurin Masonic Lodge (The Tech Lodge) and has been its secretary since 1933.

Succeeding Mr. Hokanson will be Carl T. Carey, Jr., a graduate of Bentley College of Accounting and Finance. Mr. Carey joined the Payroll Office in 1946. He will be MIT's fifth bursar.

It will utilize every information output on Campus (THE TECH, MIT Calendar of Events, WTBS, the dormitory newspapers, the bulletin boards, Dean Fassett's mail boxes, Non-Resident Student House, and the McCormick Hall mail boxes).

To place a notice in the bulletin, fill out a form in Mr. James Murphey's office in the Student Center at least ten days before the week in which the event to be publicized takes place. The deadline for notices for the bulletin is Wednesday, ten days previous to the week of the event. The actual publication and distribution will be staggered throughout the week of the events. Publication is intended to begin as soon after school begins as possible.

Those interested in further information about the bulletin should contact PRC Chairman Ralph Schmitt (Apt. 1410, Westgate, 868-7539) or Bob Howard (X 3783).

New computer

(Continued from Page 1)

each of which can store up to 207 million characters (a character is 8 data bits of information). The 2314 can transfer information to the central processing unit at a rate of 312 thousand characters a second. High speed magnetic tape units, printers, IBM display terminals, and other peripheral devices also will be included in the new System/360 time-sharing computer complex.

Compass Seminar

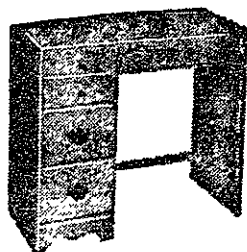
A Compass Seminar on the "Problems of Star Formation" will be held in 54-100 at 4:00 pm, Tuesday, September 21, 1965.

Dr. F. D. Kahn, Reader in Astronomy, University of Manchester, will be the speaker.

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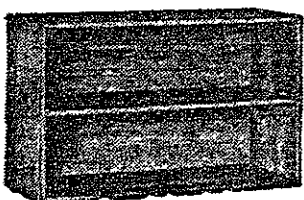
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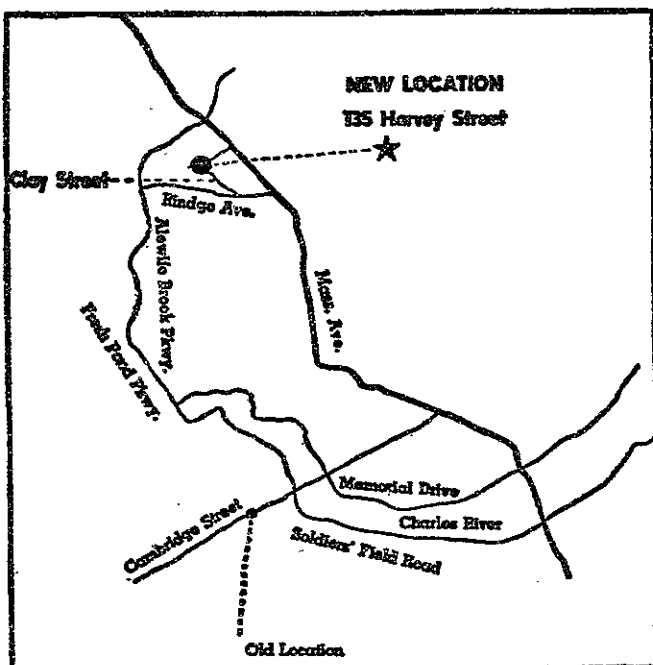
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Our annual advice — Think!

We extend our heartiest welcome to the class of '69—and at the same time we warn you that we, like the rest of the upperclassmen, are about to offer you advice. But we won't be upset if you don't follow it religiously.

Right now you freshmen are learning that advice is a free commodity at MIT; you can get it from your advisors, fraternity brothers, roommates, even from other freshmen. But cheap as advice is to give, to take it may be costly. The administration here trusts you to know what's best for yourself—don't sell yourself out with cheap advice.

On the other hand, the people who

tender advice to you freshmen are all well-meaning, and more experienced than you in the ways of campus life. They are trying to give you the benefit of their experience to keep you from making the mistakes they did.

What we're trying to tell you is to think for yourself. You didn't come to MIT to hold on to high school customs and society and culture. And you didn't come here to exchange one set of prejudices for another, or one way of conduct for another. You came to learn; to practice an intelligent discrimination and to broaden your horizons.

The professors you meet, your fraternity or dorm friends, even The Tech's editorials, all will be trying to stimulate some thought on your part. We don't write, and others don't speak, for the purpose of hearing ourselves. We expect a dialogue; upperclassmen may not admit it, but they learn from you freshmen too.

We hope you enjoy campus life, and wish you a successful year. But remember you're not just on the campus; you're a part of it. Take a little advice, and give a little if you feel like it. Praise what you like; complain when you don't like something. Write a letter to us; we'll print it.

We offer this as a prologue to our relations with you, between student and student newspaper. In the pages to come the dialogue begins; we will enjoy it, and we hope you do too.

Frosh schedules

MIT's new curriculum has already shown its widespread influence to change tradition; the 961 freshmen were immediately given a diagnostic test in physics, and listened Thursday to a careful explanation of the core subjects for their year. Now the big question remains — will the students take advantage of the choices offered to them, and what will be the results of the diversity of first year schedules?

So far we can only hope — that the freshmen will have sense to evaluate their own backgrounds and interests, and that the upperclassmen know enough about the program to offer sound advice.

There was a lot of philosophy behind the curriculum change; some of it, of course, centered on the need to be better in the things the Institute already does well. But the CEP also recognized the fact that MIT attracts the same kind of talent as the other top universities. That is, there is broadening as well as deepening of purpose.

The tests given this week were the first results of this broadening. Not everyone here is now expected to be tops in physics, or to have a first-rate background in the subject. And certainly not everyone is expected to tackle the three main science disciplines at once, although many will.

For the upperclassmen, it may reflect poorly on a freshman if he is not taking 8.01—but don't forget the "T". There is no comparison now between the memories of a senior and the curriculum of today; a really smart freshman now might not take 8.01T.

We don't think, however, that the upperclassmen will be helpless to assist the new class with their schoolwork. The subjects are intelligible enough, and the fine old art of learning how to learn, with a minor in advanced study habits, is still the basic course. Let the freshmen take the course that fits them best, and let the upperclassmen show them the time-honored ways to succeed in it.

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by Chuck Kolb

51. The passing of Professor Hans Mueller thins the ranks of a group of Institute citizens that is already sorely depleted — those professors who enjoy teaching undergraduates.

The Institute has many good teachers, and many who try hard, but there are few who radiate the same warmth and eagerness to teach that characterized Professor Mueller's classes. Those of us who were lucky enough to draw recitation sections under "Hans" will miss him; those who weren't that lucky missed something rare.

52. Those juniors and seniors who took 8.031 and 8.041 may be interested to learn that Professor Scherb has skipped town. He has resigned to take a post at the University of Wisconsin.

53. A letter from Denis Postle, who directed the BBC film made about MIT here last spring, reports that the film will be shown over the BBC network on September 21 in "the top documentary slot of the week."

The title of the film is "How To Be First"; doesn't that make your heart swell with school spirit?

54. The fact that Mr. Hokanson has retired as bursar won't ease the bite the Institute takes out of your wallet. It's no secret that all signs indicate that an announcement of a tuition raise for next fall will occur this year.

Speaking of Mr. Hokanson, how would you like to have 20% of every check made out to him in the last five years?

55. For a look at the best dressed Tech Tools you'll ever see check September's "Enquire" pages 133-143. Those guys don't look the same without their tennis shoes.

56. September's "Scientific American" contains two articles by MIT faculty members. See "Ciudad Guayana: A New City" by Lloyd Rodwin and "The City as an Environment" by Kevin Lynch.

57. The lag in the opening of the Student Center facilities is a big disappointment, particularly if you expected to be putting this issue together in nice new offices (which you definitely aren't).

Word is that the cafeteria over there will train its freshman staff Tuesday and open for breakfast and lunch Wednesday. A full three meal service may be in effect by the following Saturday. The grill room won't open before then either.

58. Anecdote of the week: While the expectant freshmen waited eagerly for the Diagnostic Test in Physics to be distributed, Dean Gray was engaged in other worthwhile activity. It seems that no one had provided any pencils, and the dean was compelled to sharpen a few gross of them.

59. Nobel Laureate and Provost Charles H. Townes has been made an honorary alumnus of MIT. It's easy to get a degree here; just submit a Prize-winning thesis!



Vol. LXXV, No. 15 Sept. 17, 1965

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Tom Rozsa '68, Richard Rudy '68
Philip Ryals '68, Mark Silver '68
Alfred Siver

Unsigned editorials in The Tech are the opinion of The Tech's Board of Directors, not that of MIT. The Tech welcomes letters from its readers. Space permitting, such letters will be printed in whole or in part, if deemed by the editor to be of sufficient interest or benefit to the community. Brevity increases the chance of publication. Anonymous letters will not be printed, but names will be withheld upon request.

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Congratulations

The Tech extends its congratulations to News Editor Chuck Kolb and Business Manager Stephen Teicher, both of whom were married this summer. We wish them and their wives, Sue and Debbie, best of luck in years to come.

Kibitzer

By Marked Nubeez

North		East	
♠ 10 4		♠ A Q 5 3	
♥ A Q		♥ J 10 8 7 6 5 2	♥ K
♦ A Q J 7 2		♦ 10 9 5 3	
♣ A Q J 9		♣ 7 5 3 2	

West		South	
♠ 8 7		♠ K J 9 6 2	
♥ J 10 8 7 6 5 2	♥ K	♥ 9 4 3	
♦ K 8 4		♦ 6	
♣ 8		♣ K 10 6 4	

with the ace and returned a club. When West showed out, but did not trump, the hopes for making the contract faltered once more.

With East marked with two trumps to the queen, declarer was forced to abandon trumps temporarily. Hoping to set up dummy's diamond suit for diamond sloughs, South finessed the king, cashed the ace, and ruffed a low diamond. When West dropped the king on the third diamond trick, South knew he could make this contract. He cashed the remaining clubs and the jack of diamonds, all safe because East was now known to have started with four diamond and four clubs. The position was:

North		East	
♥ A Q		♥ Q 5	
♦ 7		♦ x	

West		South	
♥ x x x		♥ K J	
		♥ 9	

The seven of diamonds was led. If East trumps, South over-ruffs, pulls trump and cashes the ace of hearts. If East throws a heart, South does the same. South would then have a ten-ace over East an can just over-ruff him on the next trick.

The play demonstrated in this hand, by which declarer is able to lead a side suit in order to finesse outside trump honors, is called a trump coup. Two keys to this type of play are reducing the number of trumps in declarer's hand to the same as that of the opponent and ending up in dummy at the right time.



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Pigors retires from Sloan post

Dr. Paul Pigors, professor of industrial relations, has announced his retirement effective this month.

Professor Pigors, an authority on personnel administration and communications, first began and has continued to teach an undergraduate course in personnel administration in the Sloan School of Management. Out of this course came the textbook "Personnel Administration," now in its fifth edition, written with Professor Charles A. Myers.

Professor Pigors came to MIT in 1941 as a lecturer in industrial relations and later that year was appointed associate professor. He became full professor in 1959. Throughout his years at MIT he has taught courses both in the School of Humanities and Social Science and in the Sloan School of Management.

MIT graduate one of fifteen men named to White House Fellowships

On September 1, Richard de Neufville, a graduate student from the Department of Civil Engineering, started work as a White House Fellow. He is one of the first 15 such Fellows appointed by President Johnson in this new program.

This year's Fellows, announced at a recent White House ceremony, will work at the highest level of government for one year. Four will be assigned to the White House staff and will work for McGeorge Bundy, Jack Valenti, and Bill Moyers (assistants to President Johnson) one will work for Vice-President Humphrey, and one with each of the 10 Cabinet members.

In addition to their work assignments, the Fellows will participate in an extensive educational program arranged by the Brookings Institution. They will have the opportunity to confer with Cabinet members, Associate Justices, Senators, and prominent economists and social scientists.

Class of '60

Mr. de Neufville, MIT '60, received his Ph.D. in civil engineering this August. He is particularly interested in the planning of large scale engineering programs and in economic development. Most recently he traveled through Central America doing a study of the economic integration of the Central American Common Market.

While at MIT he was president of the Delta Psi fraternity. He was also elected to Tau Beta Pi, Sigma Xi, and to Chi Epsilon the civil engineering honorary.

He was selected as a White House Fellow after a regional interview conducted by a panel chaired by Erwin Canham, editor of the Christian Science Monitor. This was followed by a final meeting in Washington with the Commission on White House Fellows headed by David Rocke-

feller, president of the Chase Manhattan Bank.

The program is open to all occupations and women are encouraged to apply. This year's finalists included, among others, engineers, university faculty members, scientists, economists, and writers.

A search for next year's Fellows is now under way.

Candidates for the White House Fellow program must be graduates of an accredited college, American citizens, and between 23 and 35 years old on September 1, 1966. Each must have demonstrated high moral character, exceptional ability, marked leadership qualities, and promise for future development.

Inquiries and requests for application blanks should be addressed to Mr. Weatherall at the Office of the Graduate School, or directly to the Commission on White House Fellows, the White House, Washington, D. C.

New astronaut earned masters degree here

Charles M. Duke, of Lancaster, South Carolina, and holder of an MIT master's graduate in aeronautical and aeronautical engineering, has been awarded, along with 11 other fliers, credentials as one of the nation's newest space pilots. He earned them as the eighth and latest crop of graduates from the four-year-old Air Force Aerospace Research Pilot School at Edwards Air Force Base, California.

Duke, who graduated in 1957 from Annapolis, took his master's degree at MIT in 1964. He has been in the Air Force eight years, and plans to continue on as an instructor at the Edwards Air Force Base School.

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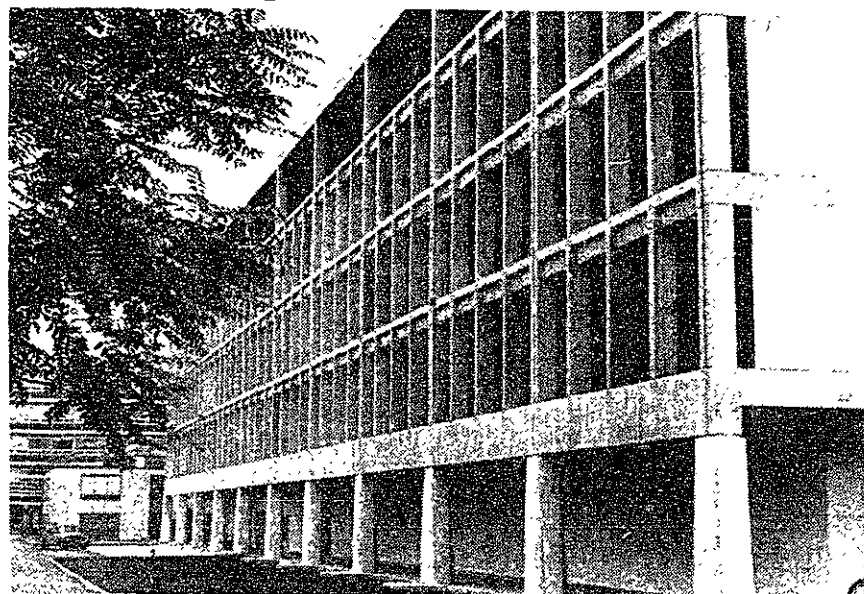
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Walker Memorial

Building thirteen finished



Building 13, as seen from Mass. Ave. shows labs, classrooms and offices to house part of the Center for Materials Science and Engineering. The five story building has more floorspace than any academic building constructed since the main Institute.

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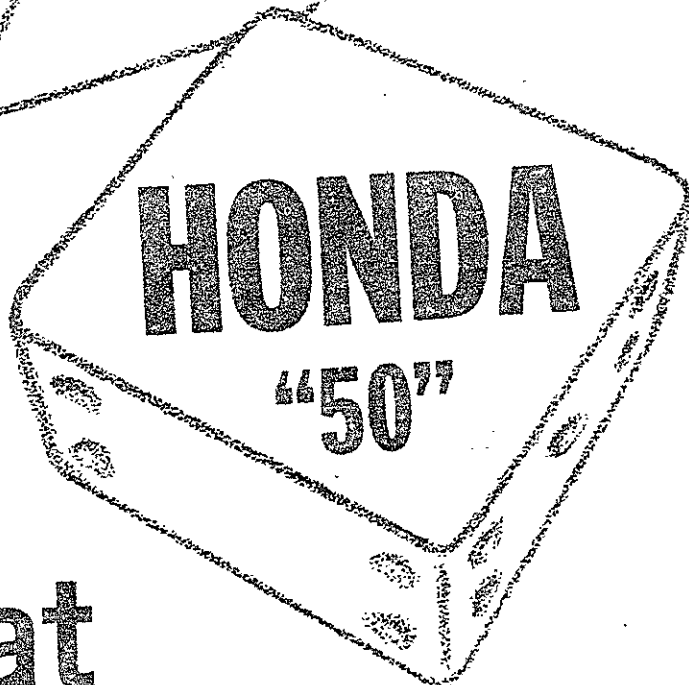
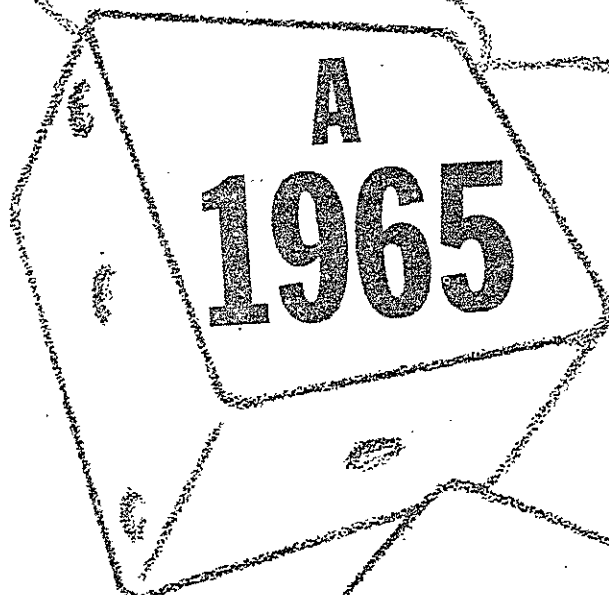
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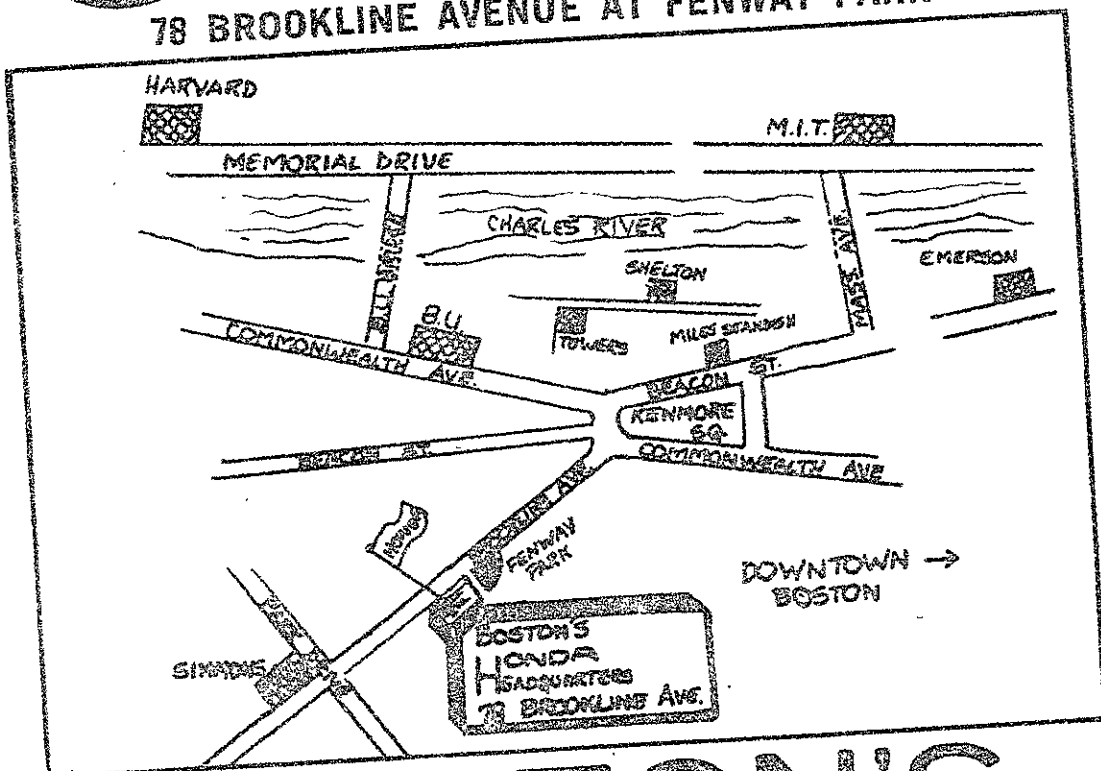
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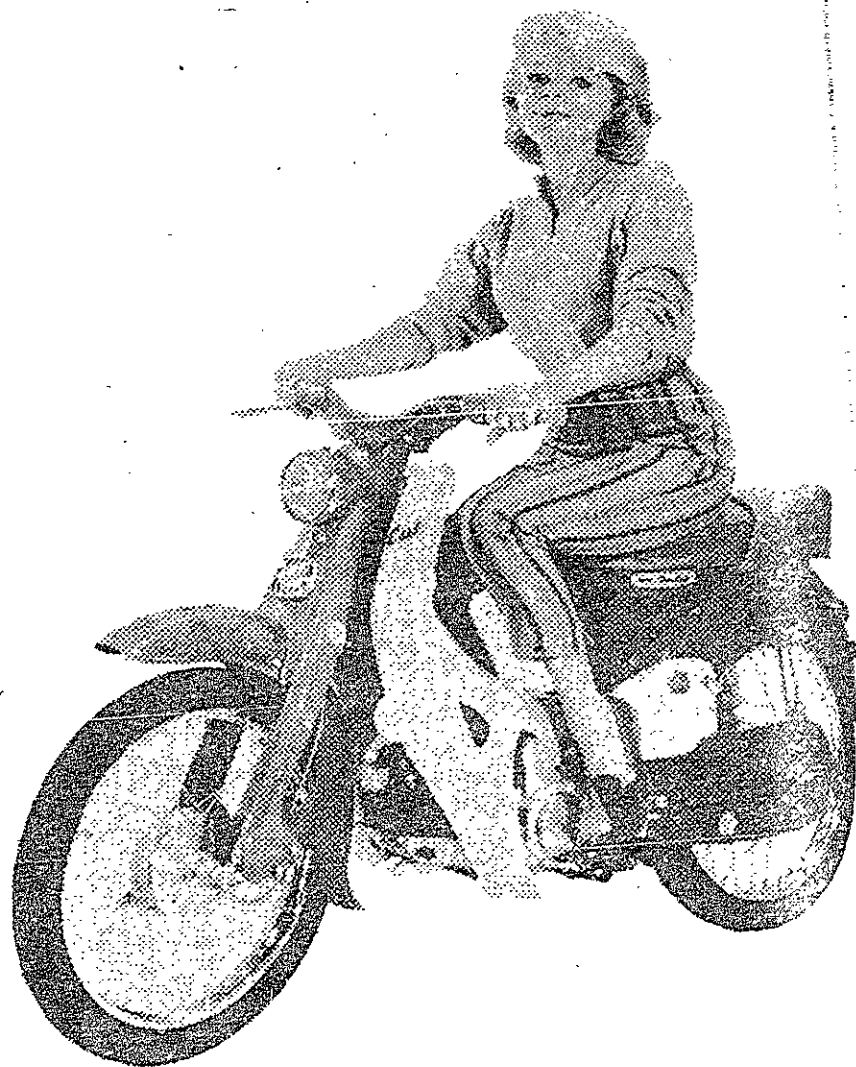
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THE TECH
FRIDAY, SEPTEMBER 17, 1965
Page 7



Photo by John Torode
Leaving the Building 7 exit, one sees the outside of the main cafeteria and (soon) the main entrance to the building.

Professor Frederick J. McGarry, past chairman of the Faculty Committee on Student Environment, has voiced a philosophy of education which was peculiarly apt in the context of planning for a student center. He said, in part:

"We need, literally, a 'university polarized around science'—but one in which dedication to all the classical areas of intellectual growth is evident, and in which the undergraduate can witness and experience the heterogeneity of human expression so essential to his own development..."

"In the undergraduate program, the awareness possessed by the individual is usually limited, his enthusiasms are great, and possibly superficial, and his interests lack clear definition. Much more than just professional growth is needed, and unless opportunities in the other realms are also available and can be explored by each student, he experiences a sense of unfulfillment without understanding its cause. This sense can pervade his entire outlook and performance."

"At the Institute, the resources and personnel representing the non-technical realms—the arts, the humanities, and the social sciences—are substantial and of high quality. Because of the rapid progress demanded of the undergraduate in his technical subjects, however, it is only the very unusual boy who can adequately develop his interests in anything besides the technical area. We have the other resources, but their actual availability to the student is limited; it is difficult for him to become educated and trained simultaneously... The academic pace is not likely to decrease. Consequently, there is need to provide facilities which will make easier the undergraduate's exposure to the forces conducive to his cultural and personal growth."

"The problems surrounding undergraduate education at the Institute accurately reflect those troubling our entire society..."

Strategic measures to improve our image, to increase our effectiveness, and to enhance our students' perspective are imperative."

It was this growing complexity of life at M.I.T. which brought the real urgent need for a Student Center on this campus. There were the strongest possible arguments for assembling M.I.T.'s non-academic pursuits under one roof to enhance the sense of community, to provide a gracious background for social activities, and to strengthen student traditions. The Student Center will substantially strengthen activities which are essential to a broad education.

The Scope Of The Needs
Before this year, the Institute had no activities center which students could call their own and no place where they could relax outside their living quarters. Student organizations were scattered about the main plant and dormitories. Walker Memorial, originally built as a student center, no longer met the demands made on it, because of M.I.T.'s growth in the last 40 years and the large increase in resident students. Walker had to serve so many different purposes that it served none of them well. Group meetings of undergraduates were sometimes held in dormitories, sometimes in departmental lounges, but most often in empty classrooms which lacked informality of atmosphere and dissociation from the workaday world.

M.I.T. has an unusually effective system of student government, in which students are responsible to one another. Yet there was no adequate place where they could discuss campus issues. Their meetings at the Student Center will be in a location separate from classroom and laboratory, psychologically as well as physically.

The Institute's musicians learned sadly that there were but few individual rehearsal rooms when they wanted to practice piano, trumpet, or clarinet for an hour

(and it couldn't be done in dormitory rooms!). Practice rooms at the Student Center will give even more impetus to the Institute's already active musical life. Glee Club, Symphony Orchestra, and Concert Band needed a room large enough for informal concerts when Kresge Auditorium was in use, and they needed a lounge to which they could invite visiting musical groups for a dance and refreshments or just to meet and talk after a joint concert. The Student Center will meet these needs, too.

The Center will have great potential for informal faculty-student contact, and certain facilities, including good restaurant service, will be at the disposal of the entire Institute community. These will include a shopping area which will bring the convenience of a village to the M.I.T. doorstep, after years of having to cope with little more than haircut-and-cup-of-coffee accommodations.

To Stimulate New Interests
The Center's main function will be to stimulate and deepen extracurricular undergraduate interests. Specific experiences for the student—different from those of his academic life, living group, and athletic activities—will surely evolve. Indeed, the very existence of the Center will create them.

Dean of Residence Frederick G. Fassett, Jr., notes this in urging that there be some unassigned space:

"The needs and demands will grow just because the space is there," he says. "New groups will organize and provide service to and outlets for undergraduate interests, and there will be integration of young, fertile minds in ways we can't predict. One cannot overestimate the imagination and creative potential of the students at M.I.T. As they reach high levels of accomplishment in new areas of activity..."

Increased activity of the Musical Clubs, the Dramashop, and the Lecture Series Committee since construction of Kresge Auditorium illustrates the healthy growth that stems from new facilities. Demands for Kresge exceed the capacity of the Auditorium today. Strong interest among religious groups of 14 different faiths has followed the building of the Chapel.

The Lighter Side
The Student Center will supplement the Institute's educational program in many other ways. It should be a place which everyone associates with pleasure. The sociology of the M.I.T. community demands that there be such a place. Administration and faculty express concern that young undergraduates, thrust into M.I.T.'s mature society, lose much of the fun and spirit which come naturally and almost unrecognized in more conventional colleges.

When undergraduates come to

the Institute they are of serious intent. "This is a school where students, somehow, don't expect to have fun, to dance and to laugh," says one faculty adviser. "Yet those things are an important part of any young man's development in the search for his own place in the normal scheme of living. Too often we make work of play."

With the exception of Walker Memorial and Baker House, there is now no place on the campus where dances of more than 75 couples can be held; the Student Center would permit several such parties within a single weekend.

Finally, the leisurely associations of young men and women together at the Student Center would do much to erase the greatly exaggerated image of the Tech man who postpones having a "date" until he can carefully research the subject, then spends equal time calculating the results afterward.

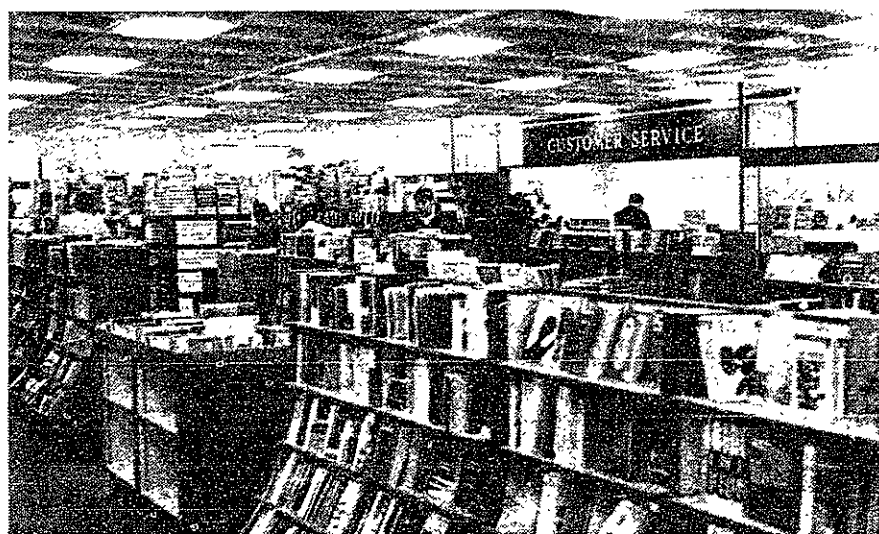


Photo by John Torode
Shown here is the textbook department of the new Coop, the first floor to be opened for general use.

Student Center officials, hours for facilities listed

RESPONSIBILITIES WITHIN THE STUDENT CENTER

1. Tech Coop — Mr. Zavelle
2. Dining — Mr. Grotheer
3. Library — Prof. Locke
4. Banking — Mr. Cary
5. Maintenance — Mr. Murphy
6. Scheduling — Student Center Comm. (forms available in Mr. Murphy's office; decisions implemented by Mr. Murphy's office)

HOURS OF STUDENT CENTER FACILITIES

1. Harvard Cooperative Society
 - a. "Tech Coop": 8:30 am - 5:15 pm Mon.-Sat.
 - b. "Tech Coop Barber Room": 8:00 am - 5:30 pm Mon.-Sat.
 - c. "Lobby Shop" (all tobacco products here; popular magazines; drugstore items; gift items, etc.): 8:30 am - 9:00 pm Mon.-Sat.

NOTES: Names in quotes are official titles. Information made available by Mr. Zavelle.

2. Food Service
 - a. "Lobdell Room" dining (self-service). Mon.-Sat.: Breakfast, 7:30-10:00; Lunch, 11:15-2:00; Dinner, 5:00-7:00. — Sun.: Breakfast, 9:00-11:30; Entrees, 11:30-7:00.
 - b. Grill room dining (waitress & self-service) Mon.-Fri.: Lunch, 11:45-2:00 (waitress service); Dinner, 6:00-8:00 (waitress service). — Sat.: Self-Service, 2:00 pm-2:00 am. — Nights: Self-Service, Mon.-Thurs., 8:00 pm-1:00 pm; Self-Service, Fri. & Sat., 8:00 pm-2:00 am.

NOTES: The grill room is still unnamed; a contest will probably provide the name. The Lobdell Room service is completely "a la carte" by item.

3. Library: 7 days a week, 24 hours a day (subject to change).
4. Banking (duplication of Bldg. 10 facilities — deposits, check cashing, traveler's checks, etc.): 9-2, Mon.-Fri.
5. Games area (pocket billiards and 10-pin bowling): 11-11, Mon.-Sat.; 2-11, Sun. (times subject to change).
6. Activities floor: 7 days a week, 24 hours a day.

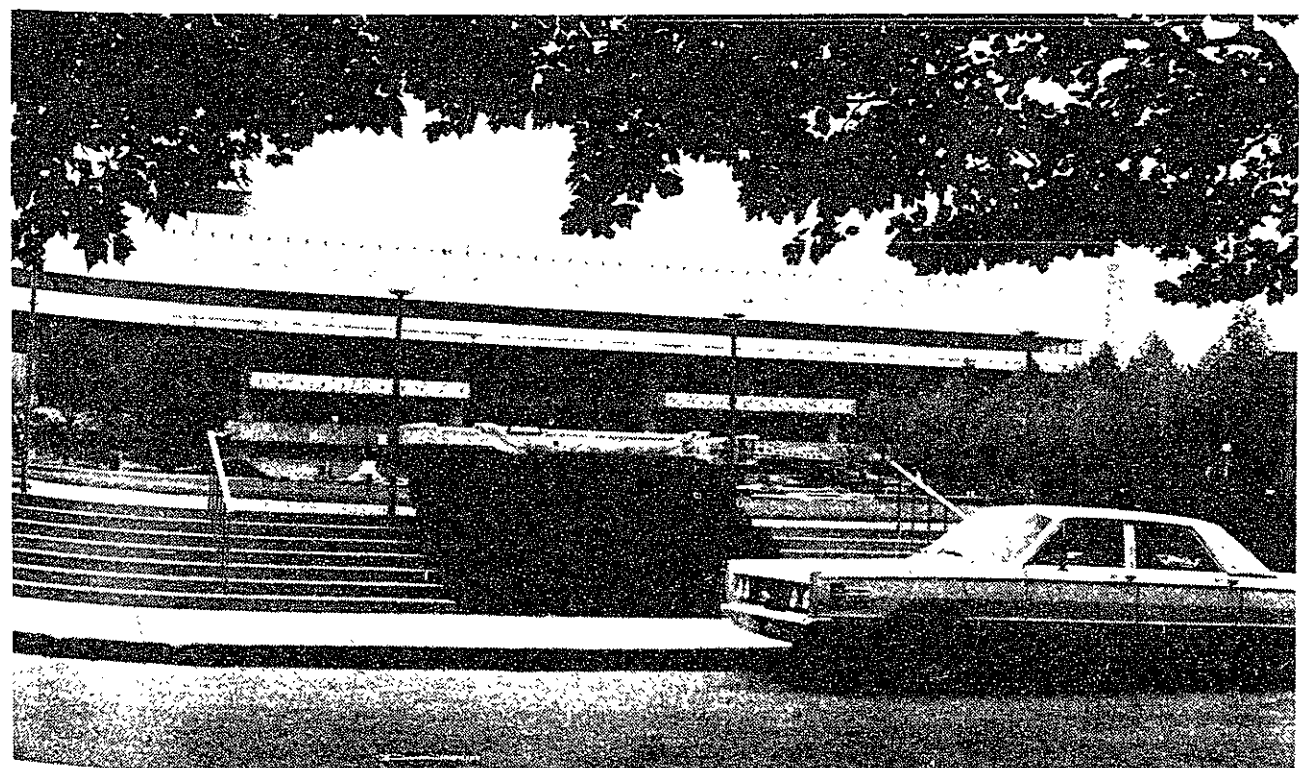
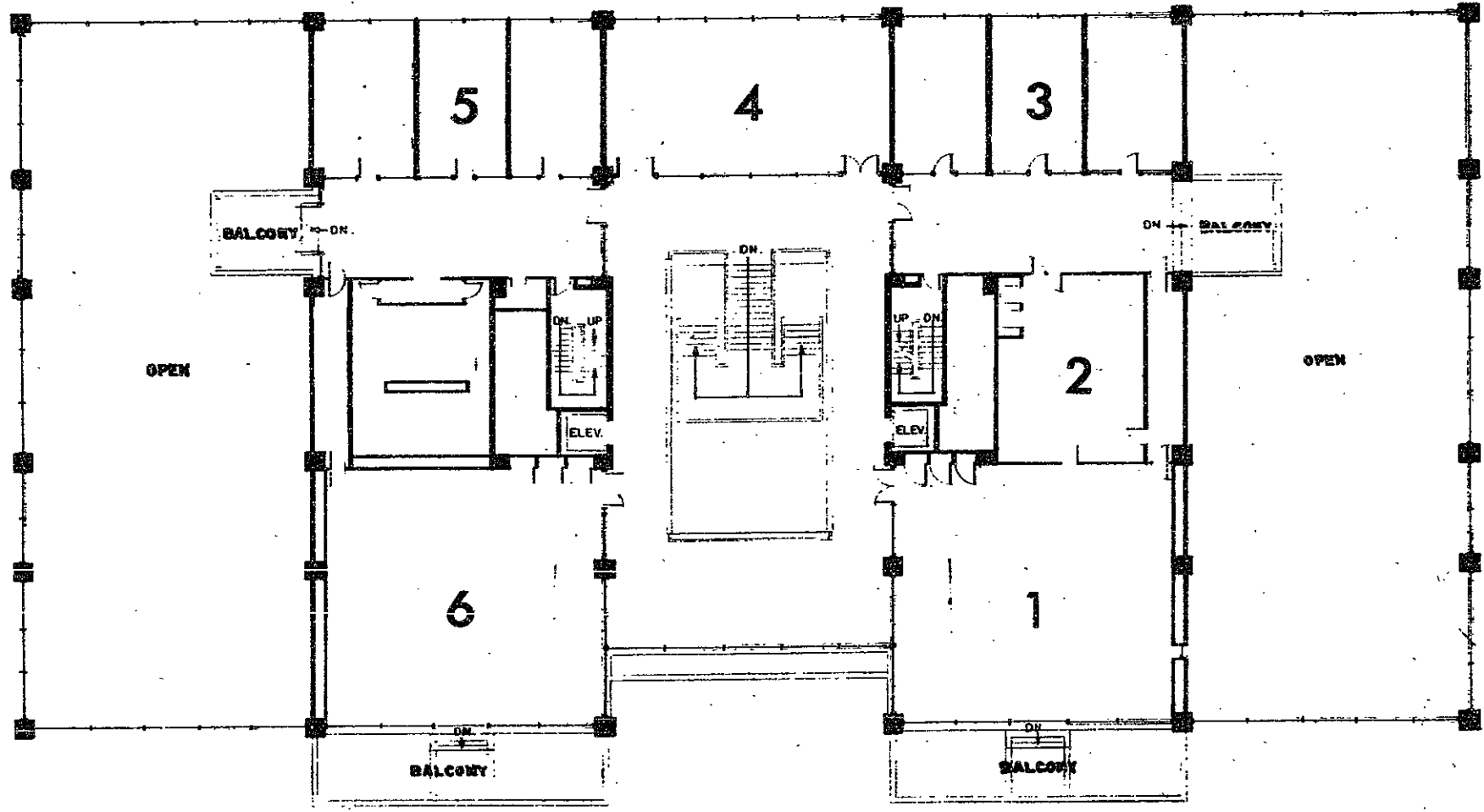


Photo by John Torode
This view from Amherst Street across the lawn in front of Kresge shows the front of the Student Center as it nears completion.

Student Cen

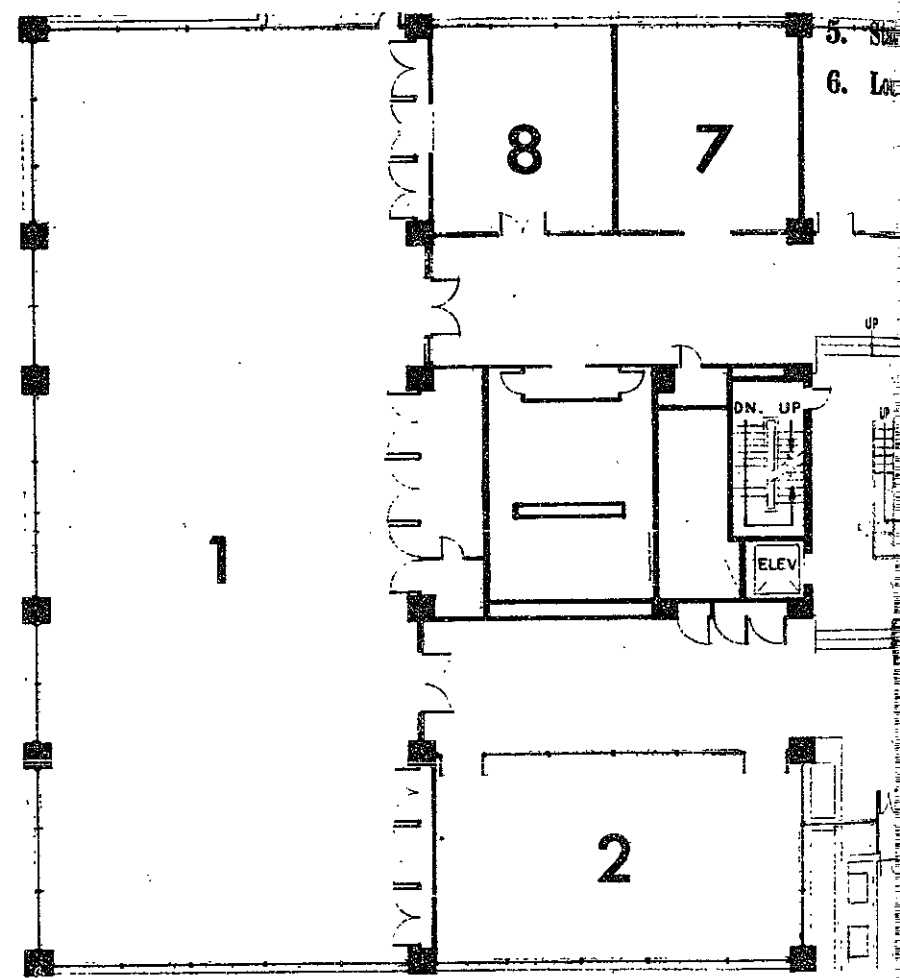


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Third Floor

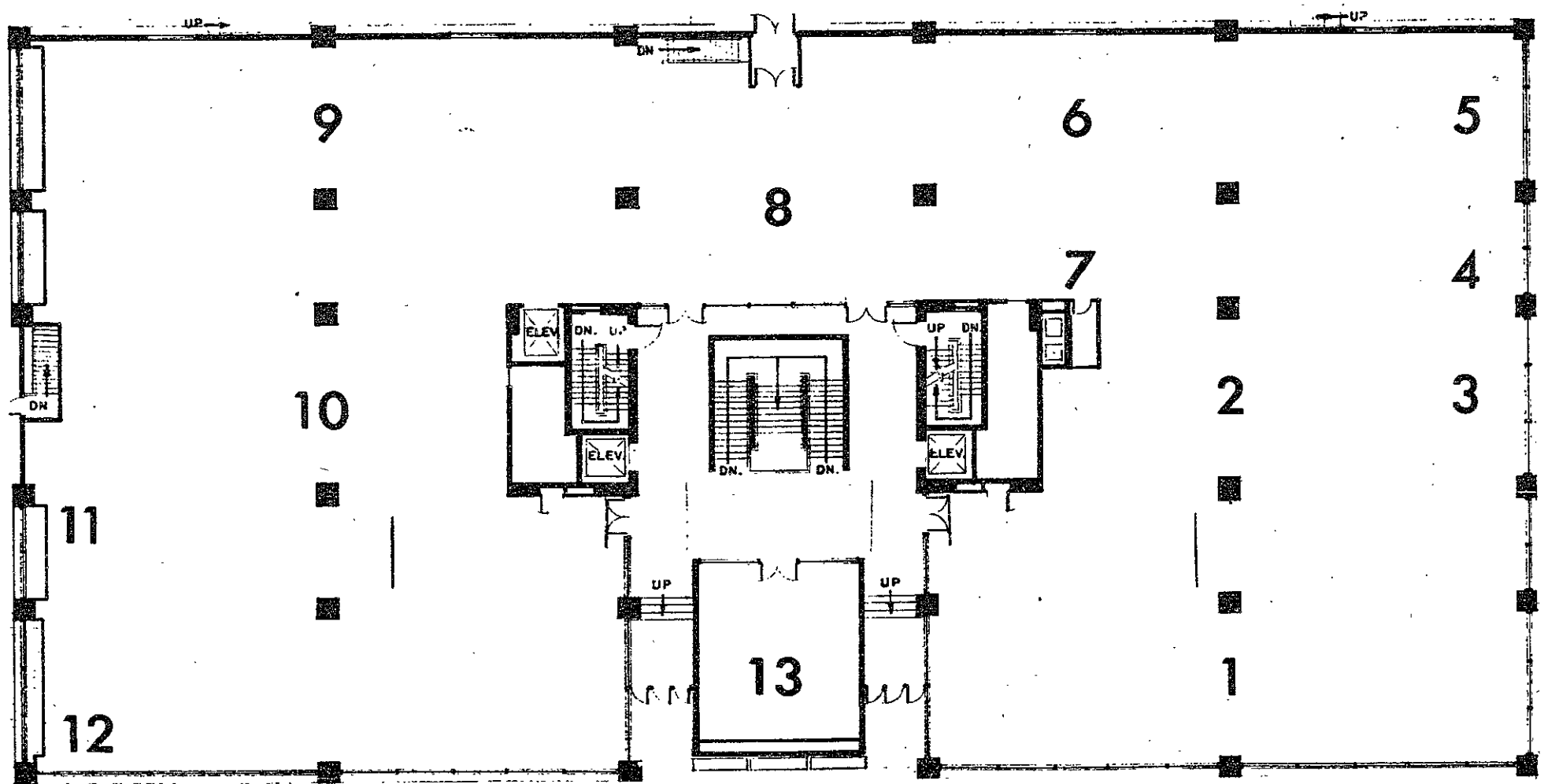


First Floor

1. Men's Shop
2. Women's Shop
3. Gifts, Appliances, & Housewares
4. Special Orders
5. Cashier
6. Photography
7. Pharmaceuticals
8. School Supplies
9. Records & Prints
10. Books
11. Book Special Orders
12. Coop Optical
13. The Lobby Shop

Second Floor

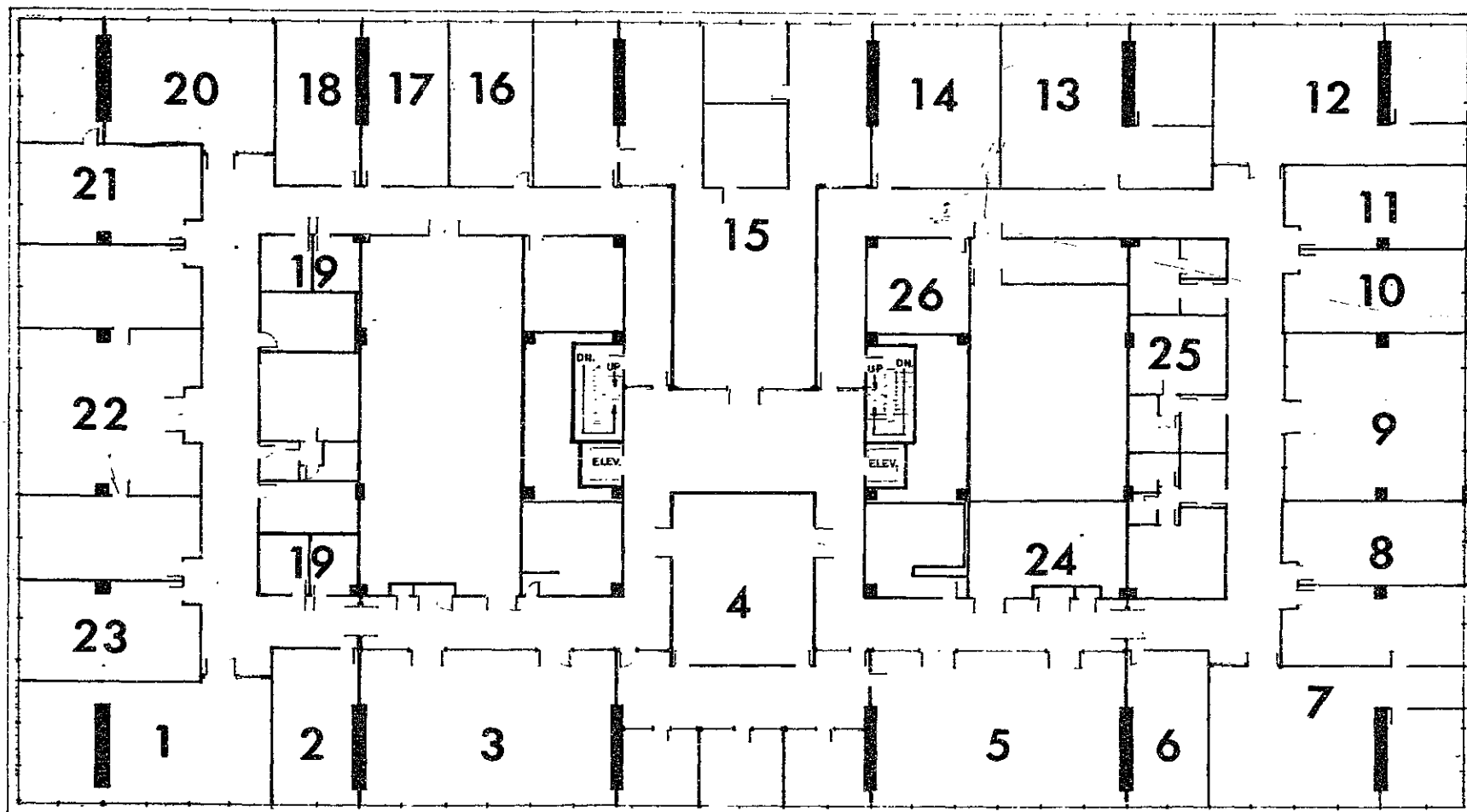
1. Multipurpose Room
2. Lounges
3. Main Cafeteria
4. Small Dining Rooms
5. Food Service
6. Periodicals Reading Room
7. Coat Room
8. Storage



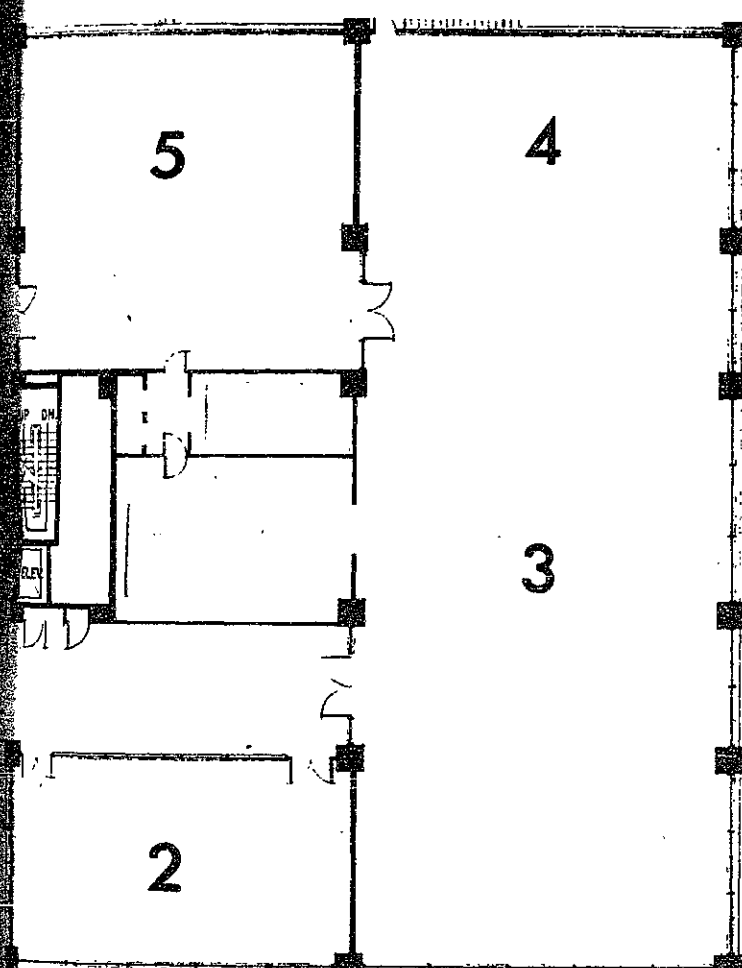
1. M
2. C
3. C
4. U
5. B
6. C
7. P
8. D
9. P

First Floor (Tech Coop)

Floor Plans



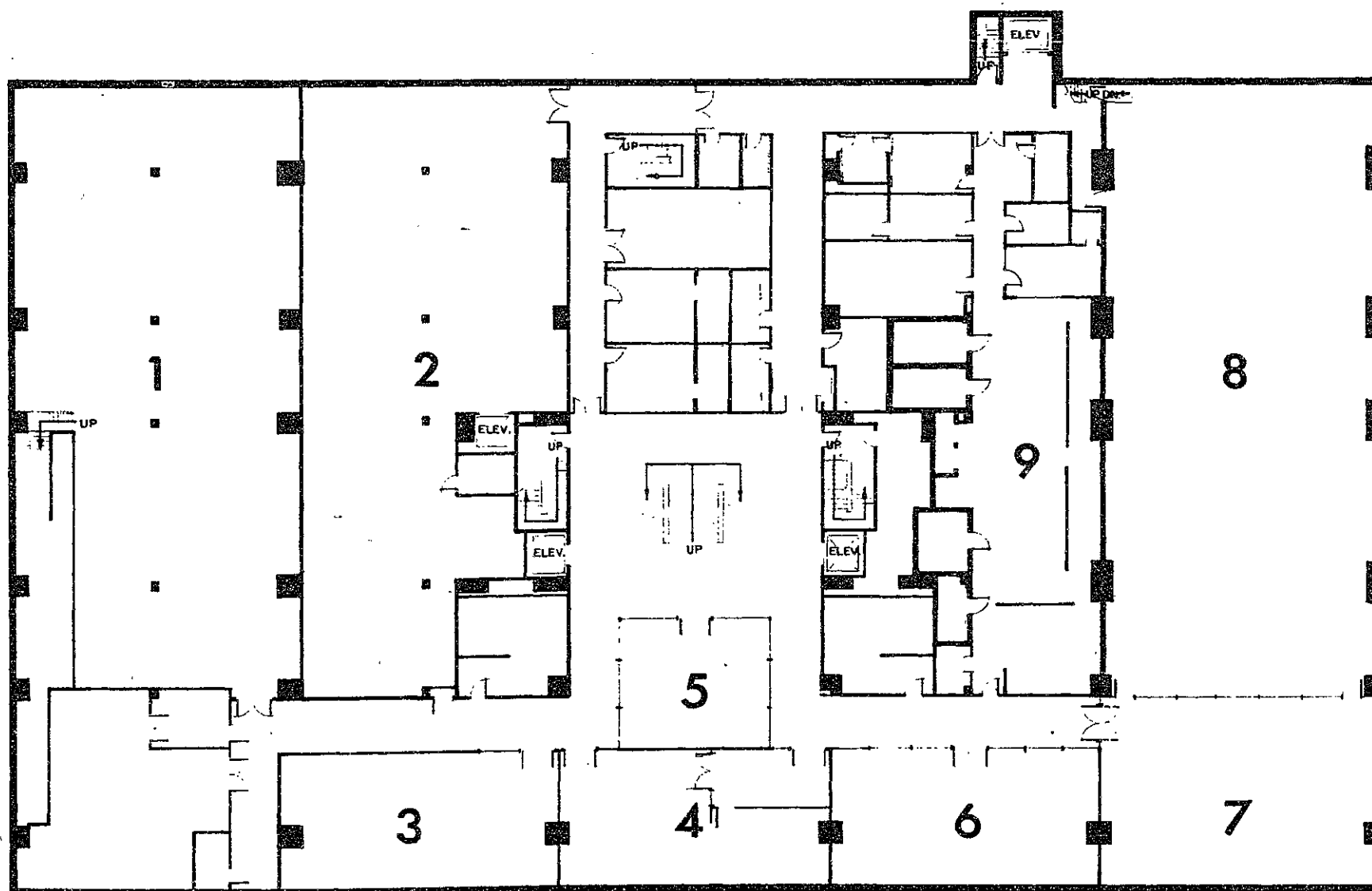
Final floor plans
Student Center.
is a reserve
and conference
on pages seven
been compiled
Public Relations
chairman. The
photographers.



Fourth Floor

Fourth Floor

- | | |
|-------------------------------|--------------------------------------|
| 1. Small Activities | 14. Tech Engineering News |
| 2. Interfraternity Conference | 15. Technology Community Association |
| 3. Meeting Room | 16. Science Fiction Society |
| 4. Institute Committee | 17. Social Service Committee |
| 5. Lounge | 18. Dramashop, Tech Show |
| 6. Tangent | 19. Music Practice Rooms |
| 7. The Tech | 20. Religious Organizations |
| 8. Alpha Phi Omega | 21. Lecture Series Committee |
| 9. Lounge | 22. Art Center |
| 10. Debate Society | 23. Musical Clubs, Baton Society |
| 11. Meeting Room | 24. Outing Club |
| 12. Voo Doo | 25. Darkrooms |
| 13. Technique | 26. Silk Screen Room |

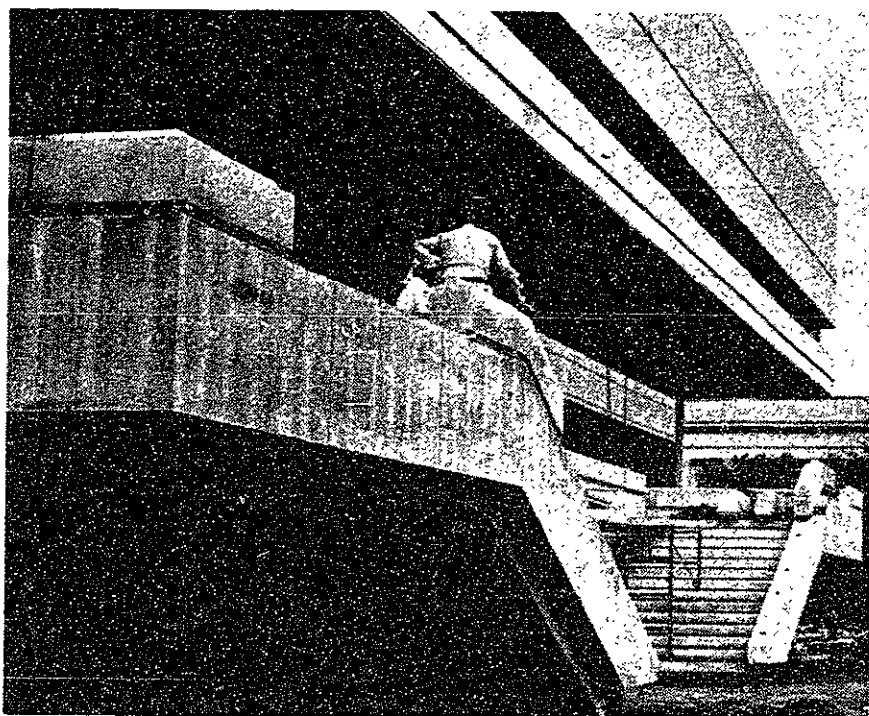


Basement

Floor

ent
ment
Tailor

(8 lanes)



The main entrance to the second floor is pictured here. Behind the stairway is the entrance to the Coop.

'If at first you don't succeed ...

Current Student Center latest of many proposals

"Future Student Union Building Will Be Planned By Students," cried a headline in a November 1952, issue of *The Tech*.

The campus was then in a state of dynamic change, with new buildings and facilities budding on all sides. Baker House had been completed, Burton remodeled and occupied; construction on Kresge was just getting started, with work on the chapel to commence shortly thereafter. Architect Eero Saarinen had created the ingenious plaza on which his auditorium and chapel would be located; the north end of this

plaza provided an ideal location for a student union.

The Spirit Revives

It was the Baker Memorial Foundation, operating in the spirit of the late Dean Everett Moore Baker, which first emphasized the need for a new student center, choosing a study of this problem as its annual project. A group of students began canvassing activities for estimates of how much space they would need; with these estimates in mind, Hsio Wen Shih '53, in his bachelor's thesis, proposed a set of tentative plans.

The Baker Memorial Committee did much of the groundwork before encouraging Institute Committee to take over in May, 1953. A Student Union Committee was set up with instructions from Incomm to contact administration officials concerning the union, study the problems of activity and commercial space, and to survey the possible methods for financing the structure.

After a year the Committee was able to demonstrate widespread backing from both administration and students; a student questionnaire gave opinions on space allocation; in his bachelor's thesis Martin Cohen '54 presented a complete plan for a student-alumni center.

Progress—and Problems

When committee chairman Eldon Reiley '55 was subsequently elected UAP, he appointed John Saloma '56 chairman and threw his weight behind the committee. The committee turned its attention to bringing the project the publicity it needed to become a reality. A 40-page report was sent to each Corporation member; a printed brochure was distributed to students; Martin Cohen's thesis was exhibited in Building Seven. But the situation remained dampened by the projected \$3 million cost and the opposing lack of funds.

In 1956 John T. Rule, Dean of Students, appointed a new Student Center Committee, composed of nine representatives of faculty and administration in addition to three students. This committee, chaired by Associate Dean of Students Robert Holden, began work along with the Incomm subcommittee by the same name.

A Fresh Look

For two years this new committee worked toward shaping a report that would be all encompassing. When the final report was made, it included both a general guide to the philosophy of the building and the activities it should house, as well as descriptions of functional relationships and lists of preliminary space requirements.

According to O. Robert Simha, Planning Officer of the Institute Business Administration, "It was this report which formed the 'guts' of the plans." That this is true is evident from a look at the report. Only one major suggestion made in the report was not adopted—that the commercial facilities, though next to the Student Center be contained in a separate building.

Nevertheless, there was still the question of finance. It was during this period that the Second Century Fund was in the initial planning stages, and there was a great deal of competition as to who would get what. But such importance was attached to the Center that it was included in the Fund from the start, even though other projects had higher priority.

Report Brings Action

Soon after the report of Dean Holden's Committee, the Institute appointed Saarinen to prepare plans for the Center; it was hoped that, by employing the same architect who had designed the by then famous Chapel and Kresge, the Institute would be rewarded with a uniformly designed, integrated plaza of great architectural significance; Saarinen was working on the second preliminary plans when his sudden death brought a temporary halt to the Center's progress.

Late 1961 found Eduardo F. Catalano, professor of architecture, appointed architect for the Center. Prof. Catalano buried himself in conferences with student activity leaders, commercial representatives, and others concerned. By spring of 1962 tentative plans had been made, and a preliminary model constructed.

Since then a seemingly endless succession of conferences and counterconferences, suggestions, changes, and improvements have evolved a building which might very well fulfill the purposes set for it. Ground breaking took place at the May 1963 Awards Convocation; dedication will be Saturday, October 9, 1965.

Johnson to leave Sloan School

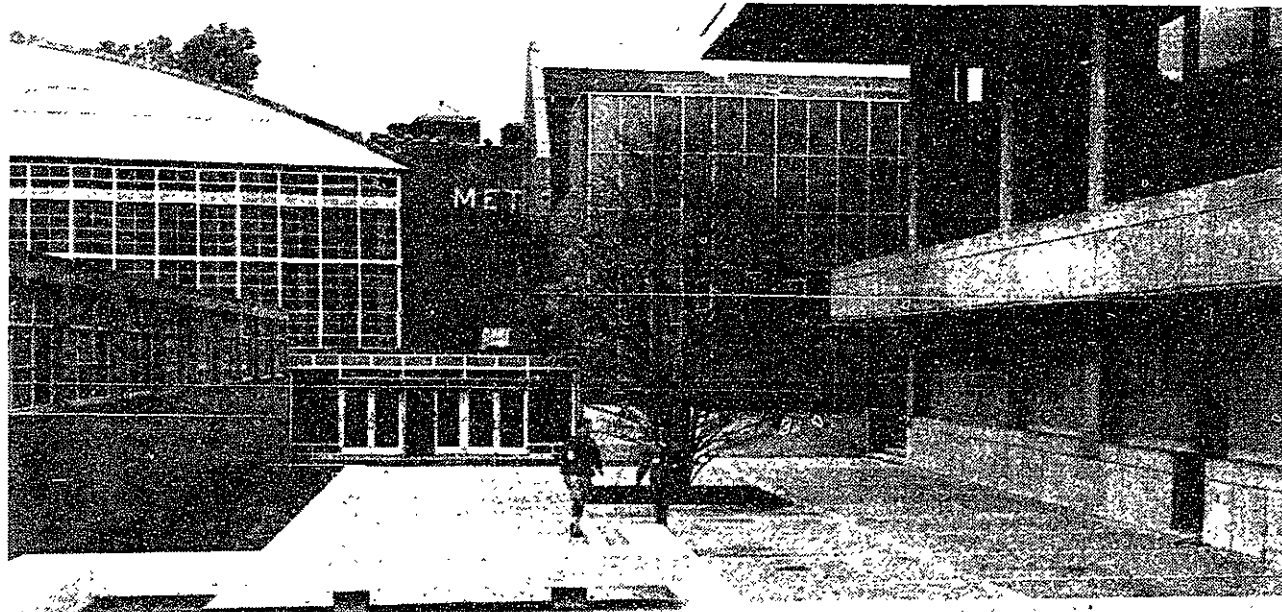
By Daniel Asimov

Dean Howard W. Johnson of the Alfred P. Sloan School MIT, recently announced that he is leaving this post to become an executive vice president of Federated Department Stores, Inc.

Dean Johnson will leave MIT next January 1 to join Federated, where he is now a consultant.

In the six years since he became Dean of the Sloan School, Dean Johnson has made it one of the leading schools of business in the U.S. During his administration the Sloan School inaugurated a Ph.D. program, helped the Indian government create that country's first graduate school of management, and launched the MIT Fellows in Africa Project, under which 40 men with graduate degrees have served two years in responsible African government jobs.

Dean Johnson has been a consultant on organization and personnel management for the Campbell Soup Co., Shell Oil Corp., and the Internal Revenue Service, among others. He has served as chairman of the MIT Press and on the board of directors of the Harvard Cooperative Society.



The west end of the Student Center mall is pictured here along with the outside of the multipurpose room and the entrance to duPont and the cage.

Photo by John Torode

Past attempts to build Student Center had much planning, not much money

A closely knit housing of offices and meeting rooms for student organizations, a careful blending of social, dining and recreational facilities for individuals as well as groups, a student center which would be more than just a building, but rather a living entity—such a building has been sought since MIT registered its first freshman class.

Back in Copley Square, "when MIT was Boston Tech," such a student center was practically impossible; there were no dormitory facilities, and well-integrated extra-curricular life was difficult. Nevertheless there was a need, and this was answered in part by Tech Union.

As Henry S. Pritchett, then President, expressed it, Tech Union was "nothing more than a suite of comfortable rooms, provided by the kindness of a few friends, in which Institute gatherings may be held, where a dinner may be partaken of at small cost, and where it is possible for the poorest as well as the richest student to spend a comfortable and

joyous evening in the company of colleagues and teachers." Located over the mechanical laboratories, the Union soon did attain a character of its own, with its large sitting room in constant use.

It was about this time that plans for a memorial building to former President Francis Amasa Walker were beginning to take form. First kicked around in 1898, ideas for the structure began to center around a Walker Memorial Gymnasium; by the time preliminary sketches were ready, the memorial included a lecture room, small library, meeting room, and space for a possible swimming tank in the basement.

But before the detailed plans materialized, the Institute decided to move into suburbia, Cambridge-on-the-Charles. In the new Technology, Walker Memorial would have a prominent place, and a different role in the expanded MIT; in addition to the small gymnasium in Walker, there would be a larger gym and athletic fields directly behind the memorial; dormitories would surround it in a

classic quadrangle, thus making Walker the true social center of student life.

Walker Memorial was now envisioned as "the club house of the students," housing dining facilities and homes for various student activities. This was the building which was dedicated with the main Institute building in 1916.

Yet there were problems: it soon became apparent that the space for activities in Walker was woefully inadequate. Expansion, however, was looked upon rather dubiously, as the other facilities of Walker were suffering from lack of use: it was not until 1930 that a Junior Prom was held in the building. The situation was widely discussed, and a "Use Walker" campaign sprang up among the students, demonstrating by its enthusiasm that expanded facilities would be utilized.

Sparked by the student response, plans were made for adding wings to either side of Walker; the east wing, to house the dining service; the west wing, an auditorium; while Morse Hall would be furnished as a large lounging room, as was originally intended. Preliminary sketches were made, a student committee was appointed to work with the already standing alumni committee, and nothing further was heard of the idea for five years. Somehow the tremendous enthusiasm had managed to dwindle to practically nothing.

In 1936 President Compton once more called for expansion of Walker, and the old sketches were resurrected, to be raked over the coals a few times and then forgotten. Lack of funds, other things which had to be built first—these and many more were contributing factors. The Walker Memorial Committee stuck around and kept studying the situation. And after this committee, it was another committee, kicking the ideas around for all they were worth. But the next real drive didn't start until 1952, and it was this movement which culminated in the present plans.

Dedication ceremonies set for October 8-9

DEDICATION WEEKEND, OCTOBER 8-9

Friday, October 8

Activities Open House, 7-10 pm

Saturday, October 9

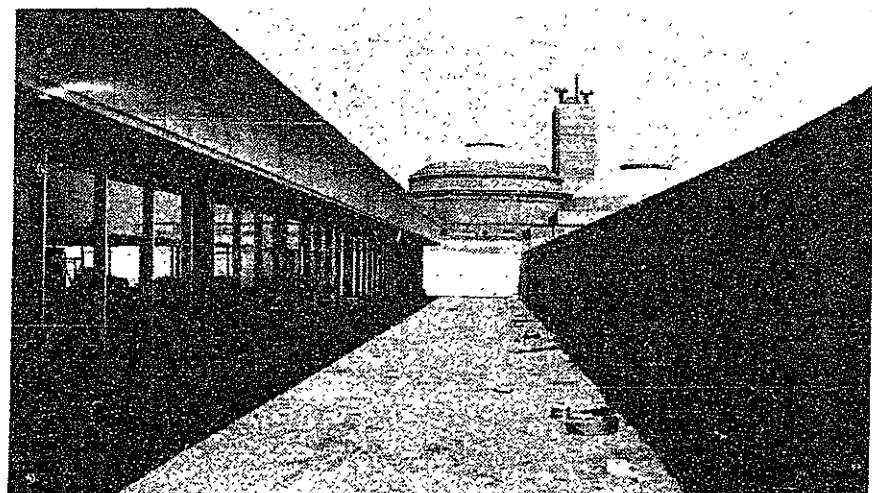
Formal invitation luncheon, Sala de Puerto Rico, 12:15 pm
Dedication ceremony, south plaza, 2:00 pm

Open house and refreshments, 2:30-3:30 pm

Jazz concert, nominal admission fee, south plaza, 3:30-5:30 pm

Semiformal dance, Sala de Puerto Rico, 8-12 pm

In the event of rain, events scheduled on the south plaza will be held in Kresge Auditorium.



This photo shows the walk around the outside of the fifth floor reserve book room.

Photo by John Torode

MIT adds four to Music Dept.

Four new members will join the music staff of MIT this fall. They are David M. Epstein, associate professor of music and conductor of the MIT Symphonic Orchestra; John Cook, lecturer in music and Institute organist; John Huggler, lecturer in music; and John S. Oliver, assistant conductor of the MIT Glee Club.

Professor Epstein is the founder and conductor of the Youth Symphony Orchestra of New York. He holds degrees from Antioch College, New England Conservatory of Music, Brandeis, and Princeton.

John Cook was born in England and studied organ at Christ's College, Cambridge, and at the Royal College of Music. His varied career, like that of Professor Epstein, includes teaching, composing, and conducting.

John Huggler holds a Bachelor of Music degree from the Eastman School of Music and has done composition for the Boston Symphony Orchestra.

John Oliver received a Bachelor of Music degree from Notre Dame in 1961 and is presently working toward a graduate degree at the New England Conservatory.

movies . . .

'Hush . . . hush, sweet Charlotte. Charlotte, don't you cry Chop, chop, sweet Charlotte. A faithless man must die.'

In a nutshell, that is what the movie is about. It starts off in Louisiana in 1927. A couple plans to elope and the girl's father finds out. Naturally he is against the idea and convinces his daughter's beau not to go ahead with it — the boyfriend is already married, just by the way. That night at a party, after informing her that he will not go through with it, he sits alone in some dark room in the mansion. At this point we hear some appropriate music and see a butcher's axe.

Just guess what happens. The girl, Charlotte, next appears in the ball-room with her dress covered with blood. The following scene takes us to last year, 1964 for those of you who have forgotten, the same mansion is still there and Charlotte, is all alone in the house, she is supposedly mad.

More trouble, more gruesome scenes, more madness — these are the required ingredients for a Bette Davis suspense movie.

Bette Davis, as one would expect, plays the role of the madwoman, Charlotte. Tormented by the fact that her lover is no longer around, and left all alone in that mansion — it's no wonder she went berserk. Her performance is quite enjoyable, if that is the right word to use.

Olivia de Havilland has not been seen on the screen for quite a while. It's about time that we have the opportunity of admiring her elegance once more. She portrays Miriam, Charlotte's cousin who has come to help her out. But does Miriam really help Charlotte?

Miriam's old boyfriend is still around too. Joseph Cotten plays

From loneliness to madness

'Hush, Hush, Sweet Charlotte,' starring Bette Davis as Charlotte, Joseph Cotten as Drew, Olivia de Havilland as Miriam, Agnes Moorehead as Velma, guest star: Mary Astor as Jewel Mayhew; produced and directed by Robert Aldrich, screenplay by Henry Farrell and Lukas Heller, director of photography: Joseph Biroc.

the part of Drew, the doctor. His role requires only a minimum amount of talent — and that much he definitely still has. Whatever happened to 'The Third Man'?

Movie Schedule

Astor — 'Lord Jim', 9:15, 11:40, 2:10, 4:35; 7:10, 9:40.
Beacon Hill — 'What's New Pussy-cat', 10:00, 12:00, 2:00, 4:00, 6:00, 8:00, 10:00; 'Dial P for Pink', 11:50, 1:50, 3:50, 5:50, 7:50, 9:50.
Boston Cinerama — 'The Greatest Story Ever Told', Wed., Sat. and Sun. at 2:00 pm, Mon. thru Sat. at 8:00 pm, Sun. at 7:30 pm.
Brattle — 'Mondo Cane', 7:30, 9:30.
Capri — 'The Collector', 10:45, 1:05, 3:30, 5:40, 8:00, 10:00.
Center — 'Circle of Love', 11:05, 2:35, 6:00, 9:30; 'Love Goddesses', 9:30, 12:55, 4:25, 7:50.
Cinema Kenmore Square — 'Casanova 70', 1:45, 3:45, 5:45, 7:45, 9:35.
Exeter — 'Rotten to the Core', 2:40, 4:55, 7:10, 9:30; 'A Home of Your Own', 2:00, 4:15, 6:30, 8:45.
Fine Arts — 'America, America', 3:30, 8:00; 'Phaedra', 1:30, 6:30, 10:00.
Gary — 'Sound of Music', daily at 2:00 pm, Mon. thru Sat. at 8:30 pm, Sun. at 7:30.
Harvard Square — 'Moll Flanders', 1:35, 5:30, 9:30; 'Devil Doll', 4:05 and 8:05.
Loew's Orpheum — 'Billie', 11:55, 3:20, 6:40, 10:05; 'Sergeants 3', 10:00, 1:20, 4:45, 8:10.
Mayflower — 'Zorba the Greek', 10:00, 12:35, 3:20, 6:00, 8:45.
Music Hall — 'Those Magnificent Young Men in Their Flying Machines', Mon. thru Sat. at 8:30 pm, Sun. at 7:30 pm, matinees Wed., Sat., and Sun. at 2:00 pm.
Paramount — 'I Saw What You Did', 9:30, 12:30, 3:30, 6:30, 9:30; 'Taxi for Tobruk', 11:00, 2:00, 5:00, 8:00.
Paris Cinema — 'The Knack', 1:15, 3:00, 4:45, 6:30, 8:15, 10:00.
Park Square — 'Ecco', 2:10, 4:00, 5:50, 7:40, 9:30.
Savoy — 'Darling', 9:45, 11:50, 2:05, 4:20, 6:40, 9:00.
Saxon — 'My Fair Lady', eve. at 8:30, Sun. eve. at 7:30. Matinees Wed., Sat., and Sun. at 2:00.
Symphony Cinema — 'The Pink Panther', 2:15, 5:25, 8:30; 'My Baby is Black', 1:00, 4:10, 7:20, 10:15.
Uptown — 'Moll Flanders', 1:00, 5:05, 9:20; 'A Very Special Favor', 11:05, 3:10, 7:25.

THEATRES

Shubert — 'Hot September', by Kenneth Jacobson, 8:30 pm. Matinee 2:30.
Wilbur — 'Generation', by William Goodhart, 8:30 pm. Matinee, 2:30.
Colonial — 'On a Clear Day You Can See Forever', by Alan Jay Lerner and Burton Lane, 8:30 pm.

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Charles Playhouse announces new season

The Charles Playhouse opens its 1965-1966 season Wednesday, September 29, with Moliere's 'The Miser'.

'The Miser' deals with a typical skinflint who meets his downfall when he falls in love. One of the great plays of world theatre, it is primarily a theatre-piece, combining shrewd commentary with skidding pratfalls, uproarious farce, and pure entertainment.

Following the Moliere play the Charles will present Jean Anouilh's 'Poor Bitos', which opens Wednesday, November 10. Opening December 15 is George Bernard Shaw's 'Major Barbara'.

January 19 will see the return of the theatre classic 'Galileo' by Bertolt Brecht, to Boston. The regular season will finish with Nikolai Gogol's 'The Inspector General', which opens March 2.

A special bonus production, title yet to be announced, will open April 13. This final show is free to all those who subscribed before July 1.

Subscriptions range in price from \$13.25 to \$22.00 for the season. Make checks payable to: Playhouse Boston, Inc., 76 Warrenton Street, Boston, Massachusetts. For subscription information call DE 8-7044. For other information call HU 2-4850.

The times of the performances are: Tuesday, Wednesday, Thursday, and Friday at 8:30, Saturday at 5:30 and 9:00, and Sunday at 3:00 and 7:30.

Subscribers are invited to attend a series of 'Sunday-at Six' discussions, with members of the cast, theatre personalities, and the audience participating.

Wildcat Ballou cute but strangely innocent

By Jeff Stokes

'Cat Ballou', one of Hollywood's latest classics, has just recently invaded the East. The lurid previews, which include breath-taking shots of Jane Fonda framed in a hangman's noose, a volcanic scene in which Jane repels an onslaught of pagans crying 'sex-maniacs!', and glimpses of the blood-chilling, silver-nosed bad guy, made it hard to wait for the real thing. But now that the real thing is here at last, we wish we had stayed home and watched television.

It seems that Hollywood has outdone itself: the previews are better than the movies they advertise.

In fact, 'Cat Ballou' bears a very close resemblance to the stuff we get on TV these days. For one thing, Catherine Ballou remains incredibly innocent throughout—her harem notwithstanding. The minstrels, at the beginning, lead us to believe that she has fallen by the wayside after the fashion of some few attractive young ladies, but nothing of the sort. The modern movie-going public wouldn't allow it. Instead she commits a murder which is very nearly justified in the minds of the audience. When the grim scene on the scaffolding comes we prepare our emotions for a sad and tragic ending. And lo and behold who should come riding along but the resurrected Kid Sheleen with the rest of Cat's band. They carry off the condemned Catherine Ballou in a

spectacular Tom-Jones-type rescue, to the great relief of the roaring audience. He is one of the good men after all, the good men who never die.

There are a few unique features to this movie, however. Kid Sheleen's resurrection from the mire of his drunkenness is inspiring as well as ridiculous. Played by Lee Marvin, the Kid amazes us with his marksmanship — which seems to improve with whiskey. It might have been nice if he, instead of the young buck, had married Cat; he's so handsome in his shining outfit, and his reformation demands some kind of reward. Hollywood's principles forbid that kind of nonsense, however.

The minstrels are the other reason for going to see the movie. Nat King Cole and Stubby Kaye wander in and out of the action, strumming their banjos and carrying on the Ballad of Cat Ballou in order to keep the story from being more disjointed than it is.

Oh, One more thing. Jane Fonda is riotously pretty, but she looks especially irresistible with a rope around her neck.

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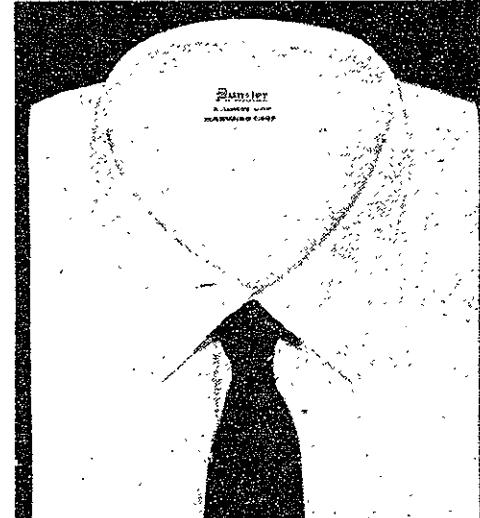
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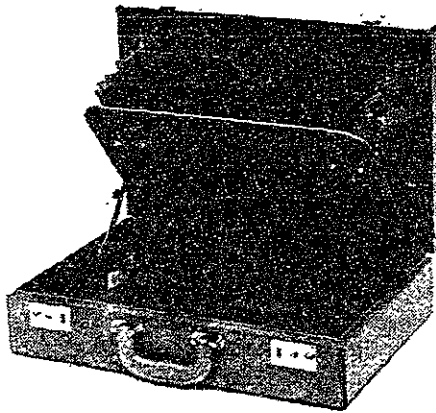
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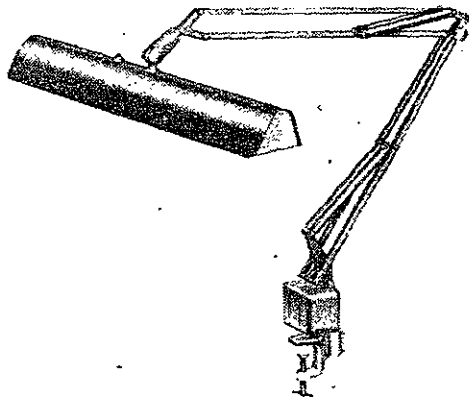
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THE TECH COOP

Summer lectures challenge established religious ideas

By Tom Sheahan

"Embryology and the Soul"—"Science and Theology as Intellectual Disciplines"—"On the Beliefs of Robots"—These were some of the titles in a series of weekly lectures held at MIT during the past summer.

The series dealt with the interaction between modern science and modern religion. Sponsored by the Tech Catholic Club, these discussions were held each Wednesday evening at 8:00 p.m. in the Vannevar Bush room, from June 9 to September 14. The lectures were designed to challenge rather than support established religious concepts, and the participants represented a wide spectrum of viewpoints.

The roster of speakers included six MIT professors, four from Boston College, and one from each of Brandeis University, St. Stephen's Priory, and Springfield College. Modern Cosmology, Freudian Psychology, Biblical Research, and Artificial Intelligence all were examined in the course of the summer.

The idea of an "Amateur Philosopher's Club" for scientists arose from two sources: Fortune magazine for May 1965 carried the article "Science Pauses" by Professor Vannevar Bush, Honorary Chairman of the MIT Corporation, in which Dr. Bush delineated the region between science and religion; and the recently popular book "The Phenomenon of Man" by Teilhard de Chardin, which is a pioneering attempt to reconcile the discoveries of modern biology and anthropology with traditional religious views.

The writings of de Chardin supplied the starting point for the series, and formed the core of several of the talks. Beginning with a student panel to elucidate "The Phenomenon of Man" on June 9, the subject shifted slightly on June 16, as Rev. Edward MacKinnon, S.J., Professor of Philosophy of Science at Boston College, considered the relation between the philosophy of "Emergence" characterized by de Chardin and most of the contemporary philosophers of science.

Professor MacKinnon spoke again on September 8, at which

time he compared the means of approach used in science and theology, and explained the problems of applying scientific processes in theology. On August 4 de Chardin's views on education were the topic of a talk by John O'Connor, Professor of Education at Springfield College.

Abner Shimony, Professor of Philosophy of Science, was the first of the MIT Professors to speak. On July 7, he discussed "Scientific Methodology and Theology," expanding on the work of noted scientists, particularly Leibnitz and Whitehead, on the problem of the existence of God, and considered the validity of the scientific method when applied to this fundamental question. "Freud and the Christian Concept of Man" was the lecture on June 23; Rev. Michael Stock, O.P., Professor of Psychology at St. Stephen's Priory, brought out the importance of the work of Freud for modern religious thought.

The contemporary philosopher Bernard Lonergan, known for his treatise "Insight," was the topic of two lectures: On June 30, Gary Schwartzkopf, S.J., of the Boston College Biology Department compared Lonergan's "Genetic Method" with the approach of de Chardin; and on July 28, Rev. Joseph Flanagan, S.J., Head of the Philosophy Department of Boston College, explained the more recent work by Lonergan on the development of understanding throughout history.

July 14 saw three discussion groups at once: Professor James Thomson, Chairman of MIT's Philosophy Department, led a consideration of "Emergence as a mode of Evolution"; George Pratt, Jr., Professor of Electrical Engineering at MIT, headed a discussion of the role of the scientist in religion; and Professor Schwartzkopf returned to probe "The Future of Man" by de Chardin.

The most controversial talk of the series came on July 21, when William Carlo, Professor of Philosophy at Boston College, discussed "Embryology and the Soul"; Professor Carlo traced the meaning of "soul" from the ideas of Aristotle up to the present day, citing the influence of embryological research on conventional understanding. Running a very close second for the "controversy" prize was the September 1 talk by Professor Marvin Minsky of the MIT Electrical Engineering Department: speaking on "The Beliefs of Robots," he outlined what could be expected of computing machines within the next generation, and discussed the possibilities of mankind's demise when machines of superior intelligence are developed.

Baruch Levine, Professor of Languages and Biblical Studies at Brandeis University, returned from an expedition to Israel just in time to talk on "Scientific Techniques in Biblical Research" on August 11. Professor Levine clarified the ways in which modern scholarship has profoundly influenced contemporary interpretation of the Bible.

Cosmology was the theme on August 25, when Philip Morrison, Professor of Physics at MIT, spoke on "The Plurality of Worlds."

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Spring round-up

Team records varied

The spring sports season's results provided a number of surprises and disappointments for the MIT teams. With the fall season rapidly approaching, a review of the previous campaign shows the following results.

Baseball

The MIT baseball team showed a respectable improvement from their 2-15 record of 1964, with a 6-12 finish in '65 competition. As expected, the Engineers had excellent pitching from Jack Mazola '66 and Rick Gander '65. Erik Jensen '67 and Mazola were strong on offense, but a lack of hitting was Tech's downfall on the diamond more than once. Gander was named to the Greater Boston League All-Star team and second baseman Ron Kadoyima received an honorable mention. Jensen was the team's leading hitter with a .340 average.

Crew

Coach Frailey had a heavy-weight crew that set an MIT

record of 8:42.6 for 1½ miles at Princeton but still lost to Harvard by seven lengths. Despite Harvard's dominance of the collegiate racing season, MIT had a fine year. The team finished in fourth place in the Eastern Sprints, and lost only to Harvard in dual competition. However the Techmen did have a disappointing showing in the I.R.A. The heavies finished in 11th place with Navy taking the cup. The crew's record was 4-1 in regular competition.

The lightweight coach, Gary Zwart, did a tremendous job with his squad. Starting with a fair team, he coached them to a 2-3 record with their victories coming late in the season. The lights won the Callow Cup and took a third in the Eastern Sprints.

Golf

Seniors Pete Lubitz, Allen Pogeler, Captain Tom Hedberg and Dick Schowmaker compiled a 4-9 record for the year in an average campaign. Lubitz had a

brilliant low for the year of 70.

Lacrosse

Coach Ben Martin appeared to be having one of his best seasons in lacrosse until the final weeks of the season. The Lacrossemen finished the year with a 7-8-1 record as Trinity ended their chances of a winning season with an 11-3 victory in the final game. Sophomore midfielder Steve Schroeder ended the season as MIT's high scorer with 33 points and was elected to the 1965 Roy Taylor New England divisional All-Star team.

Sailing

New coach Joe Duplin looked forward to an undefeated year after last season's perfect record (third in the North American championships) and all his team returning; however, bad luck and a combination of other events prevented a happy ending. The team did end up with a respectable record (three firsts) and placed for skippers in the NEISA Monotype Finals: Terry Cronberg '66, Don Schwanz '66, Chet Osborn '67, and Joe Smullin '66. Cronberg won the event and Osborn finished third. The victory by Cronberg enabled him to go to the North American single-handed finals where he placed second.

Tennis

The tennis team had its first losing season in recent years with a 4-12 record. Captain Bill Petrick '65, Paul Ruby '66, and Dave Chandler '67 were the best of a relatively mediocre team.

Track

For the third year in a row, Coaches Art Farnham and Gordon Kelly enjoyed a winning season in track. The team's record was 5-3 in dual competition. The trackmen finished third in the Eastern small college championships and fifth in the Greater Boston. Captain Rex Ross '66, Sumner Brown '66, Ken Morosh '65, Terry Dorscher '65, Dave Carrier '65 and Robert Wesson '66 were standouts. Bob Dunlap '67 came along fast to help the team in the 440 and Rex Ross set a new school record of 44 feet-6½ inches in the triple jump.

Football referees needed

In addition to the team rosters and information sheets, referees forms have also been distributed or can be picked up at the A.A. office. Anyone interested in refereeing football games should fill out one of these forms. Referees for IM football games receive a \$2.50 per game salary, and everyone interested should fill out the form as a large number will be needed to avoid the shortage which arose last year. A meeting for all referees will be held next week with a specific time to be announced later.

Three divisions planned

The league arrangements and schedule of games will be available in the A.A. office on Tuesday, September 21 in time for the opening games the following weekends. This year there will be three divisions in the regular IM football competition as well as a special graduate league. The three undergraduate leagues will be arranged according to the ability of the teams and their relative standings from last year. The grad league will be comprised of only grad teams; however, grad teams will also be allowed in the regular divisions. Any questions on the upcoming football season can be answered by calling Greg Jerrell at KE 6-1139 or X-3782.

Intramural football season nears; Beta Theta Pi defending champs

Highlighting the fall intramural season yearly is the highly contested intramural touch football competition. Each year some 80-odd teams from the various MIT living groups compete for the football crown, currently held by Beta Theta Pi fraternity.

IM football begins

The beginning of the 1965 IM football season is rapidly approaching with the opening game kickoffs planned by football manager Greg Jerrell to be staged Saturday, September 25. A full slate of football matches are scheduled for the weekend of September 25-26 so a good number of the competing teams will see action on those days, and the season should be well under way by the end of September.

To help IM manager Jerrell organize the divisions and games for the upcoming competition, information sheets and rosters have been sent to the athletic chairman of each living group on the MIT campus and also to the managers of the teams expected to compete in the graduate division. These forms plus the rosters and the team deposits required by the Athletic Association should be returned to the A.A. office in the DuPont Athletic Center by 5:00 pm Friday, September 17, with additional copies available in the A.A. office.

Cambridge urchins attend classes at Tech during summer session

Thirty-one Cambridge boys received a first-hand look at the world of science at the MIT Science Day Camp. Nearly forty MIT professors and a full-time staff of ten students were engaged in this experimental five-week program from June 28 to July 31.

The children, all seventh and eighth graders chosen in cooperation with the Cambridge Alliance of Settlements, attended the Camp from 8:30 to 5:00, Monday through Friday. Each student takes two of four courses: biology, physics, measurements, and cities.

Courses were run informally, supervised by an MIT professor but with emphasis on individual project work. Each group of four students had one of the student staff helping them, explaining and demonstrating the working of a microscope or the use of similar triangles to determine the height of the Earth Sciences Building. The group leader stayed with his charges for the entire summer, giving a unique individual approach to science teaching.

After the morning and afternoon classes, there was a varied athletic program, including softball, swimming, judo and weightlifting. And just after lunch the youngsters were treated to some special event — perhaps a magic show, some folk-singing, or a demonstration of stroboscopes by M.I.T. Professor Harold E. Edgerton.

Each Wednesday the whole group went on a field trip; one week Mt. Monadnock, another Boston Harbor, another Woods Hole. During these trips some time was spent gathering speci-

mens or making observations, and much time was spent just having fun. None of the boys were late for school on Wednesday mornings.

The program was a trial effort under the joint control of the M.I.T. Faculty Committee on Educational Opportunity and the student Social Service Committee. All professors volunteered their own time; the program's \$15,000 budget, made possible by an anonymous gift to the Institute, paid the full-time staff and all teaching and facility expenses.

Professor Kevin Lynch of the Department of City Planning, chairman of the Faculty Committee, noted that possible expansions of the program include a Saturday camp during the regular school year, as well as summer activities to accommodate more children of different ages.

The students, directed by John Nuber, '65, a mathematics major, also found this a new experience, requiring the talents of a teacher, athletic director, and camp counselor all rolled into one. This project was the latest undertaking by the Social Service Committee, which is already running a tutoring program in Cambridge.

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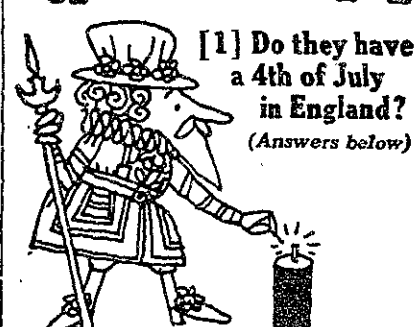
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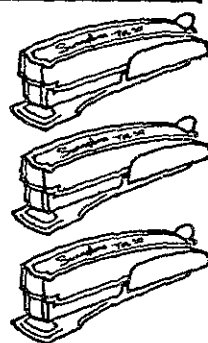
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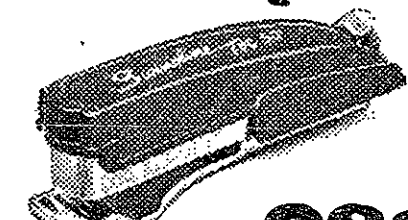
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Sailors open first

Fall sports seasons begin

The fall varsity and freshman sports seasons at MIT begin again this year with surprising suddenness as the Tech sailors herald the new season with the first competition of the year, a pre-school meet, sailing in the Pine Trophy Regatta at Coast Guard September 18 and 19. Fall practices have already begun for many of the varsity sports at MIT and those that have not yet started will be under way within the week.

Fall baseball begins

Fall baseball will be on the MIT sports scene again this year with a five game schedule against Vermont, New Bedford Tech and Boston University. The first practice for the baseball team will be held on Briggs Field Saturday, September 18 at 10:30 am. The first games of the fall season will be with Vermont September 24 and 25 on Briggs Field.

The varsity soccer team have been practicing for some time now with All-American Captain Savit Bhotiwihok '66 leading the workouts under the direction of Coach Charles Batterman. Practices will be held daily at 10:30 am and 3:30 pm through September 20 and daily at 4:00 pm after that in preparation for the season opener against WPI Wednesday, September 29.

Cindermen prep for season

The varsity cross-country squad has also been working out in pre-school preparation for the rapidly approaching fall meets. Under the leadership of Coach Arthur Farnham, captain Bob Wesson '66 and small college All-American Sumner Brown '66 along with the rest of the cindermen have been hard at work the past week in preparation for the first meet of the season in the Engineers Cup at home with WPI and RPI, October 2.

Coach John Merriman has scheduled the first varsity golf turnout for 5:00 pm in the T-Club lounge Monday, September 20. Practice for the abbreviated fall season will find MIT's golfers again playing on the Oakley Country Club course. First match of the season will be held on the Oakley course against Vermont September 24.

McLennan, Musker, Buss new coaches

The MIT Athletic Department announced the appointments of Thomas P. McLennan of Woburn, Dennis D. Buss of Cambridge, and Frank F. Musker of Chestnut Hill to its coaching staff this week.

McLennan to head shooters

Mr. McLennan, who retired from the U.S. Air Force in August with twenty-one years service, is named supervisor of the MIT pistol and rifle ranges. A newly constructed pistol and rifle range at MIT is scheduled for completion in December 1965.

In addition, McLennan will be varsity pistol and rifle coach at MIT. Mr. McLennan is the current Massachusetts State Indoor Pistol Champion. A native of Lynn, he is married and has four children.

Buss frosh light coach

Appointed to the freshman lightweight crew coaching post is Dennis D. Buss. Buss is a 1962 graduate of MIT where he lettered in crew. As a senior, Buss rowed on MIT's lightweight crew that traveled to the Henley Regatta in England.

Mr. Buss, a Native of Gainesville, Florida, is presently an electrical engineering teaching assistant at MIT. Buss is married and resides in Cambridge.

Also appointed to the MIT athletic staff on a part-time basis is Frank F. Musker. Musker, a graduate of Boston University, is assigned as gymnastic coach. Mr. Musker is married and resides in Chestnut Hill.

Crews plan meeting

Heavyweight crew Coach Jack Frailey has scheduled the first meeting of the heavies this fall for 4:00 pm in the MIT boathouse September 20. Highlight of the meeting will be a showing of films of the Vesper races at Henley. Also meeting on the 20th are the lightweight crewmen under Coach Gerrit Zwart. The lights will also be meeting in the boathouse at 5:15 pm. The crews are meeting to get their fall practices arranged and workouts planned for the fall and winter in preparation for the spring racing season.

Freshman crew turn-out is scheduled for 5:15 pm in the MIT

boathouse September 20 for all freshmen interested in crew at MIT. All freshmen with an interest in rowing with either of the crews this year, regardless of previous experience, are strongly urged to attend this meeting.

Representatives of all the sports at Tech will be present at the Activities Midway tonight at 8:00 pm to recruit freshmen for the '69 frosh teams. Turnout times for these sports will be available at this time; some will be posted on the bulletin board in the DuPont Athletic Center and all will be available from the A.A. office and the coaches of the respective freshmen teams.



Soccer team captain Savit Bhotiwihok '66 is shown during pre-school workouts held by Coach Batterman. Bhotiwihok received an honorable mention to the All-American team for his outstanding play for MIT last year.

the sports spot

"Sports at MIT?" asks the entering freshman when he first encounters the extensive athletic program available at Tech. "But I thought all you did was study." This reaction is typical of the most popular misconception about the MIT athletic program. Every newcomer to the Tech sports world is surprised at the variety and depth of MIT sports.

Varsity, freshman and intramural teams in almost every imaginable sport greet the freshman entering the MIT sports scene for the first time. With everything from varsity crew to intramural ping pong, the diversity of athletic activities at MIT is only matched by the diversity of people and interests in these activities.

Large sports program

The intercollegiate program,

though not highly publicized, is one of the largest and most varied in the nation. With at present eighteen intercollegiate sports (competing in everything but football, which is being planned) MIT is tied with Navy for having the largest number of intercollegiate athletic teams.

The sports program at Tech is designed for student participation and not to gain national prominence for the school. That type of program would require extensive recruiting and athletic scholarships, both of which are not within the MIT athletic philosophy. As a result, MIT teams are stocked only with dedicated athletes with a desire to play and win but mainly to compete and enjoy themselves.

Team strength varies

With an athletic philosophy such

American sailors sweep; Cronburg captains team

Sailing team captain Terry Cronburg '66 and Tech's number two sailor Don Schwanz '66, after leading the MIT sailing squad to a victorious spring season, joined forces with top college sailors around the country to stage an amazingly successful assault on British waters during the summer. The United States Inter-Collegiate team swept both the British-American Universities trophy and the Sir Thomas Lipton Memorial Trophy races plus 16 of 20 club races while touring Britain.

Sailors swamp British

In July the U. S. collegians, ably captained by MIT's Terry Cronburg, met their British counterparts in the British-American Universities Trophy Regatta and captured the cup easily in a decisive 5-0 sweep. The Sir Thomas Lipton races, held a month later from August 17 through 20 on London's Welsh Harp, were a repeat of the earlier American performance as the Yankee sailors swamped their British opponents with surprising ease, 5-1.

The American team, headed by Cronburg, included MIT's Schwanz and Chuck Paine of Brown and

his twin brother Art of the University of Rhode Island, Bob Purington from Princeton, Bob White of Ohio State and Scott Allen from the USC sailing team. Jack Wood, retired MIT sailing master and long-time backer of the Inter-Collegiate Yacht Racing Association, accompanied the American sailing squad on the successful British tour.

First American win

The strong showing of the American team in sweeping both the Lipton and B-A Universities races besides the winning 16 for 20 club race record is more impressive since this is the first time U. S. college sailors have ever won either trophy when contested in England, while the British have twice been victorious in American waters. The ability of the U. S. collegians to reverse the results of previous encounters speaks strongly of captain Cronburg's leadership and the skill of his six teammates.

Cronburg returns to the helm of the MIT sailing team this season and with Schwanz and several fine veteran sailors Coach Joe Duplin looks forward to a strong season.

Cross country team workouts begin; Engineers Cup race opens season

By Alan Corlen

The cross-country team under the direction of Coach Arthur Farnham began preparing for the fall season by holding pre-school workouts. The workouts were scheduled for the ten days preceding the current school year to prepare the runners for the short fall season that begins Saturday, October 2 with the Engineers Cup race. This meet is at home and begins at 2 pm against WPI and RPI.

The cup was created two years

Armory rifle range under construction

Work is now under way on the construction of a new rifle and pistol range at MIT. Previously, rifle matches were held in the old five point range behind the Alumni Pool and building 20 and pistol shooting was confined to the small range in the basement of the Armory.

The new range will be in the basement of the Armory with renovation plans calling for 12 pistol and 12 rifle points which can be opened into one range for large competition. Newly named pistol and rifle coach, Thomas McLennan, will supervise the range when it is finished December 15. Until the new range is completed, shooting will be confined to the old five point range. Robert Durland of the MIT pur-

chasing office is handling the renovation work on the new range, ago with the Techmen winning both competitions since; however this year may be different. The MIT squad lost three lettermen by graduation and two more lettermen decided not to return to the team this year. The two lettermen remaining on the team are Capt. Rob Wesson '66 and Sumner Brown '66. Wesson won the team's trophy for the most improved runner last year and should help the team with his spirit and hard-work skill.

Brown named All-American

Sumner Brown was a small college All-American last year and is a fabulous runner. He finished in eighth place in the National Collegiate Championships to earn this honor. Brown helped lead the team to last year's winning season by taking ten first places out of twelve meets he competed in. Only Dave Dunsky of Northeastern defeated him during the season.

Other than these two men, the squad is inexperienced. Bob Dunlap '67, the school's top 440 man, is planning to come out for cross-country. His contribution is an unknown factor at the moment because he has never run long distances; he injured his leg during the summer. The rest of the squad will be sophomores. The freshmen squad was not particularly good last year and probably will not be able to bolster the squad and fill all the holes. Of the sophomores, only Dan Hoban and Dennis Cartwright showed up at the pre-school workouts.

The sophomores on the squad are led by Dan Horan, who could turn into a good cross-country runner if his knee does not bother him. The rest of the squad is rounded out by Pete Peckarsky, Dennis Cartwright, Dave Mountain, Bill Donahue and Howard Friedberg.

The cross-country team will be running on a new course this year. The meets will still be at Franklin Park Golf Course, but the race course will be four and one-half miles instead of four miles. The new course was laid out by Northeastern and still needs some letter markings before the season begins.

Frosh practice scheduled

Even with this grim picture Coach Farnham is hoping for the best. Each year a few upper classmen come out for the sport for the first time, and these men could help this year. Coach Farnham is already preparing for next year. Freshman practice for all interested runners will begin Monday, September 20, at 4 pm at Briggs Field.

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